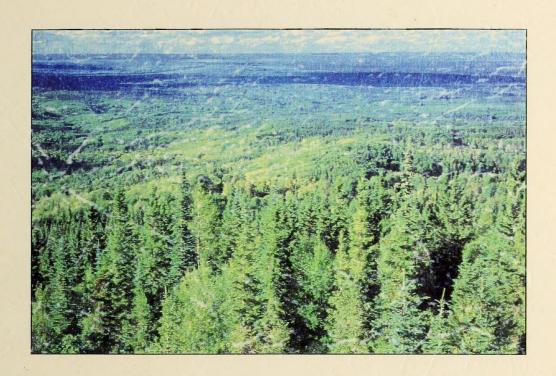
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Natural History Inventory 2000 Grizzly Ridge Wildland Park



Prepared by:

Cliff Wallis, P. Biol and Cleve Wershler, P. Biol. Cottonwood Consultants Ltd. Calgary, AB

for:

Natural Resources Service Alberta Environment Valleyview, Alberta

March 2001



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1. INTRODUCTION

Cottonwood Consultants Ltd. of Calgary was contracted by Natural Resources Service of Alberta Environment to undertake an Natural History Inventory at Grizzly Ridge Wildland Park in the Swan Hills area of north-central Alberta.

No previous comprehensive natural history studies have been carried out on fauna and flora in the area. The 2000-2001 study included a literature review, a multi-season field inventory, and aerial photograph/biophysical map interpretation (including GIS mapping). The project objectives were:

Ecological Unit Classification

To conduct an ecological land classification and define ecological units at the ecosite hierarchical level (1:20 000) by integrating landform, wildlife and representative plant community type data from field plots into the maps and reports.

Bird and Mammal Inventory

To produce a bird and mammal inventory of the park. Incidental observations were also be made of other wildlife.

Special Features Identification

To identify and describe special features in the park and integrate them into the maps and report. For the purposes of this project, special features included landform types as classified in *Classification of Alberta Land Forms 1998*, as well as the plant communities, plant species, and vertebrate and invertebrate species of concern as identified by the Alberta Natural Heritage Information Center (ANHIC). Also included were highly productive habitats that may be characterized by high populations or high species diversity.

Sensitive Areas and Disturbed Areas

To identify and describe sensitive areas and disturbed areas in the park, and integrate these areas into the maps and report.

GIS Mapping

To provide GIS ARC/INFO files and 1:20,000 hardcopy maps of the ecological land classification, special features, sensitive areas and disturbed areas.

Project Report

To provide a report describing the ecological characteristics and special features of the area.

The final products consist of:

- · a report in Word 97 format that contains:
 - descriptions of major vegetation assemblages and specific community types and associated faunal assemblages;
 - descriptions of significant geological, soil, vegetation, hydrological or faunal features, including plant communities as well as plant and animal species of special concern (e.g. rare, endangered, red-listed):

- annotated plant and animal species lists; with particular emphasis on rare species descriptions;
- digital files consisting of ARCINFO.E00 polygons for the various ecological units and polygons or points for each of the special features
- completed forms (site description, vegetation, ANHIC) and interpreted aerial photography
- 35 mm prints and negatives of field plots and project area
- · a representative sample of plants and wildlife from our stock nature photo library
- · paper copies of maps, including one original and two copies
- digital files of vegetation plots (in Access 2 PLOTS format) which include the information from the relevant site description and vegetation forms
- · digital files of wildlife observation (in Access 97 WILDOBS format)
- · digital files of special features in a format compatible with ANHIC's database
- conversions of digital files to file formats required by the client (i.e. ASCII file in a form that is compatible with Ecological Site Information System or direct entry into ESIS)
- digital files consisting of attribute files for each polygon

Digital information including word processing files is be on CD.

Cliff Wallis was the overall project coordinator and biophysical specialist responsible for the landscape and vegetation components. Cleve Wershler was the wildlife specialist_responsible for the faunal component.

2. STUDY AREA BACKGROUND

The study area included all of Grizzly Ridge Wildland Park lying on the north side of Sturgeon Lake in Tp. 70 - 72, Rge. 6 - 8, W5 Meridian. It is an area of 107 sq. km located southwest of the town of Slave Lake (Figure 1.)

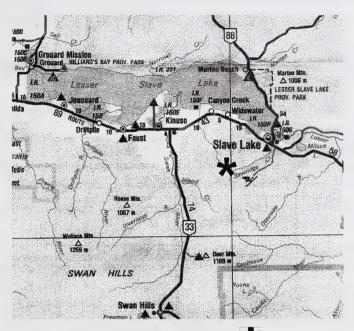


Figure 1. Study Area Location

History: The park was designated as a wildland park in 1998. This was initiated through the Special Places process.

Grizzly Tower, on Sawridge Hill on one of the northern plateaux, is one of the oldest forest lookout tower locations in Alberta. A replica of the original tower was recently built.

Climate: The area lies in the Boreal Southern Cordilleran climatic region (Ecoregions Working Group 1989). This is a transitional zone between the climates of the Boreal Forests and the Rocky Mountains. It is a continental climate, characterized by short warm summers and long cold winters. Precipitation is moderately high during all seasons but there can be years of very high precipitation as well as extended periods of drought. Snow cover generally lasts about five months beginning in November and ending in April. Winds prevail from the west or northwest. Chinooks are common in winter. The presence of the Swan Hills and the higher elevation than surrounding lands increases the precipitation relative to adjacent lowlands, resulting in some of the highest summer precipitation in Alberta (Achuff and Wallis 1992).

Topography, Bedrock and Surficial Geology: The park lies on the Swan Hills Upland. It includes a combination of a discontinuous plateaux with a thin veneer of glacial deposits and heavily dissected, and sometimes slumping, colluvial slopes.

The highest plateau areas are in the extreme south (over 1100 m) but elevations of all plateaux are fairly uniform with northern plateaux, e.g. Sawridge Hill, reaching over 1050 m. The lowest elevations are found along stream valleys and the extreme northern lower slopes that lie at about 770 m above sea level.

Bedrock from the Cretaceous age underlies the park. This Wapiti Formation is a soft brown sandstone.

The most striking geological features are the surficial pre-glacial gravel deposits of Paleocene that underlie the plateaux.

An overview of geology in the region is provided by Wynnyk et al. (1963).

Soils: Soils are mainly Gray Luvisols, with the exception of Gleysols in wet non-boggy areas in the valleys and Organic soils in wet boggy areas on the plateaux. Regosols are widespread and occur along the slopes and the plateaux where cobbles are at the surface. An overview of soils in the region is provided by Wynnyk et al. (1963).

Hydrology: Drainage is into several small streams that ultimately flow into Lesser Slave Lake. The principal hydrological features are:

- small unnamed lake in southeastern portion
- small ponds at the extreme south and in the east central portion in a slump block in a recent burn
- · small open bogs on the plateau
- Sawridge Creek draining the eastern flank
- Adams Creek and Island creek draining the western flank
- Assineau River and Mooney Creek draining the northern flank

All these streams lie in deeply incised valleys. They have minor floodplains and judging from debris along the banks can carry large volumes of water at certain times of year. All streams area easily crossible at most other times.

Vegetation and Wildlife: The vegetation (Map 1) and wildlife are typical of forests in the Upper (54 sq. km) and Lower Foothills (53 km) Natural Region in Alberta. Most of the site represents the ridge/valley wall level 1 Natural History Theme although there are some minor areas of Wetland-Organic on the plateaux and Floor/Stream in the valley bottoms. The preglacial gravel capping of the plateaux is a unique feature (Achuff and Wallis 1992

Fire is the dominant natural disturbance which has created the variety of age classes and forest types found in the park.

White birch, subalpine fir, black spruce, white spruce, lodgepole pine are the dominant trees occurring extensively as mixedwood stands. Aspen is scattered throughout and is occasionally dominant, especially at lower elevations. Balsam poplar is largely confined to streamsides and

moister sites on the slopes where it rarely forms pure stands. Wetlands and bogs are rare. A few rare plant locations and one new rare plant community have been identified as part of this study.

There is a low diversity of bird and mammal life compared with surrounding areas. Nevertheless, there is a distinctive assemblage of birds and mammals typical of outliers of the Upper and Lower Foothills. There are several species of wood warblers, including one blue-listed species, as well as a variety of large mammals.

The area has been defined as environmentally significant in two studies (Recreation and Protected Areas Division 1996; Bentz et al. 1995). The area represents some of the most minimally disturbed land in the Upper Foothills Subregion.

3. STUDY APPROACH

Phase I - Information Review

A variety of available information and biophysical data (e.g. soils, vegetation, geology; aerial photographs) was gathered. The principal original information sources were:

- the biophysical information contained in the reports, maps, databases, files and collections
 of Alberta Environment (Alberta Vegetation Inventory data) and the Alberta Research
 Council (soils and geological data)
- 2. the database of the Alberta Natural Heritage Information Centre (for current information on tracking list species' and communities' status); and
- 3. recent aerial photographs.

Phase II - Field Survey

Natural history information from existing data sources was plotted manually to paper copies of aerial photographs. Aerial photography interpretation was used in conjunction with existing data sources and field surveys to further refine the description of the Alberta Vegetation inventory polygons. The field surveys provided a more complete view of the dominant tree species within the predefined polygons. On-the-ground observations were made in a representative sample of north, south and central sections of the park, including a recent large burn.

Field surveys were conducted during four critical periods: spring (early flowering plants, amphibians and breeding birds); summer and early fall (later flowering plants, vegetation description, bird migration and small mammal surveys); and winter (mammal tracking). In addition to the specific survey types, other observations of selected species were noted and entered into a database. These notes were focused on species not easily censused in survey plots/transects or that have not been found in plot/transect work, e.g. non-singing birds or early callers like woodpeckers and grouse.

Plots were established and GPS located so that a representative group could be used for future monitoring programs, regardless of the type of survey (e.g. bird, small mammal, pellet, vegetation). These survey methods are based on standardized techniques used in recent ecological land classification studies by the Canadian Parks Service and other researchers.

Where weather conditions allowed, color 35mm photographs were taken in vegetation survey plots (and labelled appropriately after processing). Plot locations were recorded by UTM from GPS information using NAD27 map datum requested by the client and were also noted on laminated color xeroxed copies of aerial photographs. Color photographs were also taken of other project area features, particularly significant Level 3 Natural History Themes. Plant species and plant communities noted in ANHIC tracking lists and animal species listed by COSEWIC in any category or Alberta Natural Resources Service in the "blue" and "red" categories were searched for.

Spring

The spring breeding bird surveys had a target of 6 breeding bird survey circles (standard 100 m radius) wholly within each of the Level 2 Natural History Theme assemblages identified. Some

Level 2 Natural History Themes had more intensive work done where the theme is particularly extensive, while less common themes were constrained by the amount of habitat available or a restricted distribution. The fourty-four breeding bird survey plots done included:

- one in open bog (CR1) -- limited by lack of open bogs in study area
- six in black spruce (CR6, CA8, CR11, CR20, CR31), including burn, dry and wet types
- twenty-four in coniferous and coniferous dominated mixed woods (CA1, CA5, CA7, CA9, CA10, CA11, CA12, CR2, CR4, CR5, CR7, CR8, CR10, CR18, CR19, CR22, CR23, CR24, CR25, CR26, CR28, CR29, CR30) in every combination of plateau, slope, pure coniferous subalpine fir, lodgepole pine or black spruce dominated and coniferous-deciduous mixedwood combinations of subalpine fir, white spruce, black spruce, lodgepole pine, aspen, birch and poplar
- one in pine (CR3) -- limited by burn in extensive pine and lack of availability of pure pine in northern and central portions
- one in deciduous-dominated mixed woods (CR5) and two in deciduous woods (CR15 and CR16) -- see also meadow complex following
- nine in meadow complex (CA2, CA3, CA4, CR9, CR12, CR13, CR14, CR17, CR21) which
 included sampling of the tall shrubbery/open meadows as well as the deciduous and
 deciduous dominated mixedwoods intertwined in the meadows.

The breeding bird surveys consisted of 10 minute counts in which all birds and other wildlife species were recorded along with notes on behavior. Surveys were undertaken from dawn until mid to late morning, depending on level of song and weather conditions.

Sampling for breeding birds and other species was also done in numerous other sites representative of the area (e.g. ponds, riparian areas along creeks, old growth stands) selected during literature and aerial photograph interpretation.

While amphibians were finished breeding by the time the surveys began, spring and summer surveys focused on finding adults to provide some information on amphibian use of the limited aquatic habitats in the study area. Wetlands/shores were surveyed for amphibians using a visual encounter method whereby an ecological unit was traversed in a pattern designed to sample the highest potential amphibian habitat.

Random observations of various plant and animal species were noted and entered into a database.

Summer and Early Fall

Summer and early fall surveys were targeted towards mammal surveys and vegetation description. There was a target of six vegetation plots in each of the Level 2 Natural History Theme assemblages identified. Information was noted on field survey forms that are based on standard site, vegetation and soil description forms available from Alberta Environment. Information was gathered in 20 m X 20 m plots in forest and 10 m X 10 m plots in shrub and herbaceous communities). Within each plot, canopy cover for each vascular and non-vascular plant species was estimated within the various vegetation layers (tree, tall shrub, low shrub, herb-dwarf shrub and bryoid). Cover estimates were taken for litter and mineral soil. Average tree canopy height and dbh were also estimated. Physical factors such as slope, aspect,

topographic position, landform, soils and drainage were noted. The following vegetation plots in the Level 2 Natural History Themes were done:

- twenty-four in coniferous and coniferous dominated mixed woods (V10, V11, V12, V14, V17, V18, V19, V37, V38, V39, V40, V41, V42, V43, V44, V45, V46, V47, V48) in every combination of plateau, slope, pure coniferous subalpine fir, lodgepole pine or black spruce dominated and coniferous-deciduous mixedwood combinations of subalpine fir, white spruce, black spruce, lodgepole pine, aspen, birch and poplar
- nine in deciduous and deciduous-dominated mixed woods (V8, V15, V16, V20, V23, V32, V34, V35, V50) and two in deciduous woods
- five in pine (V2, V3, V9, V51, V52) -- limited by burn in extensive pine and lack of availability of pure pine in northern and central portions
- five in black spruce (V7, V13, V24, V25, V28), including dry and wet types
- four in open bog (V4, V5, V6, V26) -- limited by lack of open bogs in study area
- four in minor wetlands meadow types (V1, V27, V33, V36)
- six in meadow complex (V21, V22, V29, V30, V31, V49) which included sampling of the tall shrubbery/open meadows

Random observations of various plant and animal species were noted and entered into a database.

Special status (e.g. tracked, endangered, blue and red-listed) plants and animals were searched for based on our previous field experience, a knowledge of their habitat requirements and the availability and accessibility of those habitats in the study area.

The summer and early fall surveys included bird migration and mammal (trapping, browse and pellet surveys) work. The bird migration work was collected as incidental observations during vegetation and mammal surveys. Small mammals were surveyed using a limited snap-trapping technique that minimizes the impact on local populations while providing data on species' presence and habitat use. The goal was 20-40 trap-nights in each Level 2 theme. The following small mammal surveys were done:

Deciduous Birch/Aspen and Deciduous Mixedwood (M3, M4) - 40 trap nights Conifer-Black Spruce (M2, M5, M10) - 50 trap nights
Open Bog (M6, M7) - 30 trap nights
Coniferous Mixedwood (M1, M11) - 40 trap nights
Meadow Complex (M8, M9) - 36 trap nights

As a supplement to the winter surveys, browse and pellet counts were undertaken along transects within one representative sample of each of the major Level 2 Natural History Theme to characterize use by ungulates and hares. Browse plots were run along a 100 m transect with sampling every 5 m in 2.5 m diameter plots. Pellet groups were counted along 100 m X 2 m transects. The purpose of the browse and pellet counts was to compare relative use for these species. The following surveys were done:

Decidous Birch/Aspen and Deciduous Mixedwood (B6, B8) Conifer-Black Spruce (B7) Open Bog (B3, B4, B5 Meadow Complex (B10) Coniferous Mixed Woods (B6A) Pine (B1, B2)

Winter

Winter surveys were focused on mammal tracking (squirrel, mustelids and other carnivores, hare and ungulates) but incidental bird observations were also recorded. A target of 2 km-days was set for each of the Level 2 Natural History themes. A km-day is 1 km of 2 metre wide transect for 1 day since the last significant snowfall. The same 1 km that has had 5 days since the last significant snowfall would count as 5 km days. This provided information on species' presence and relative abundance according to the Level 2 Natural History themes. The following surveys were done:

Coniferous-Black Spruce (W1) - 3.6 km days Coniferous Mixed Woods (W2, W4, W5, W7, W8) - 9.1 km days Deciduous/Aspen Birch and Meadow Complex (W3A, W3B, W6) - 14 km days

No pine surveys were done due to inaccessibility of the southern part of the study area and the relatively small unburned pine units in the study area.

Final Report

Wildlife observation and vegetation data was entered into Access databases (wildobs and plots respectively). The plot, transect and key random observation localities are shown on Map 3. As part of the final report, various analyses were made of vegetation and wildlife data to define plant and animal communities that are characteristic of the area and a variety of special features (Map 2). The ecological units represented by vegetation types and the plateau boundary are shown on Map 1.

An analysis of the digital data was also done to develop slope sensitivity maps (Map 4). This analysis was according to guidelines developed in British Columbia (Anonymous 1995). Slopes are broken into three classes based on slope (0-6% = low; 7-9% = moderate and >10% = high).

The final report includes:

- a report and associated Word 97 word processing file that summarizes the ecological work conducted in the study area (current and historical) according to the subject headings in the Terms of Reference and which includes one set of original prints mounted and captioned, suitable for laser color copying
- digital files for polygons and point features (ArcView project)
- · digital files consisting of Excel 97 .xls attribute files for each polygon or point feature
- mylar and 2 sets of all 1:10.000 scale maps

4. NATURAL HISTORY THEME UNIT DESCRIPTIONS

All polygons representing mappable units are shown on Map 1. Vegetation.

4.1 Valley/Ridge: Deciduous Birch/Aspen and Deciduous Mixedwood





4.1.1 Vegetation

Deciduous birch is a moderately widespread vegetation type occurring primarily on slopes, especially at lower elevations. Aspen is a less frequent component but is locally dominant primarily at lower elevations, although there occasional small stands within coniferous-dominated mixedwood on the plateau. Balsam poplar is restricted to moister sites, especially along floodplains and seepages.

These are the most common woodlands that interfinger in the Wetland Complex vegetation.

These woodlands are typically very open with a lush herbaceous cover. Birch and aspen woods are characterized by a low trunk density and with a wide variety of canopy coverages ranging from fairly closed to very open. Heights are in the 10 to 20 m range. These woods are typified by Gray Luvisols.

The dominant tree species are *Populus tremuloides Michx*. (quaking aspen) and *Betula neoalaskana Sarg*. (Alaska paper birch).

There is very sparse to moderate regeneration in the understory. *Picea glauca (Moench) Voss* (white spruce), *Abies lasiocarpa (Hook.) Nutt.* (subalpine fir) and *Betula neoalaskana Sarg.* (Alaska paper birch) are the most common species regenerating in the understorey but *Populus balsamifera* (balsam poplar) and *Pinus contorta Dougl. ex Loud.* (lodgepole pine) are sometimes present as regeneration.

With the exception of Alnus tenuifolia Nutt. (= Alnus incana ssp. tenuifolia, speckled alder) and Alnus crispa (Ait.) Pursh (= Alnus viridis ssp. crispa, American green alder) in some stands, most cover values of taller shrubs tend to be low.

Tall shrubs present at low cover values include: Salix discolor Muhl. (pussy willow), Amelanchier alnifolia (Nutt.) Nutt. ex M. Roemer (Saskatoon serviceberry), Oplopanax horridus Miq. (devilsclub), Prunus pensylvanica L. f. (pin cherry) and Sorbus scopulina Greene (Greene mountainash).

Low shrubs are also found at low cover values. Rosa acicularis Lindl. (prickly rose), Rubus idaeus L. (American red raspberry), Viburnum edule (Michx.) Raf. (mooseberry viburnum) or Vaccinium myrtilloides Michx. (velvetleaf huckleberry) frequently occur and may be dominant in the low shrub layer. Other low shrubs that make up a small part of the cover include: Ribes hirtellum Michx. (hairystem gooseberry), Ribes lacustre (Pers.) Poir. (prickly currant), Rubus parviflorus Nutt. (thimbleberry) and Vaccinium membranaceum Dougl. ex Torr. (blue huckleberry).

The principal dominant herbs are: Aralia nudicaulis L. (wild sarsaparilla) and Calamagrostis canadensis (Michx.) Beauv. (bluejoint).

Other important or frequent herbs of deciduous-birch/aspen woods include:

Actaea rubra (Ait.) Willd. (red baneberry)
Aster ciliolatus Lindl. (Lindley's aster)
Athyrium filix-femina (L.) Roth (common ladyfern)
Cornus canadensis L. (bunchberry dogwood)

Epilobium angustifolium L. (fireweed)

Galium boreale L. (northern bedstraw)

Gymnocarpium dryopteris (L.) Newman (western oakfern)

Hieracium umbellatum L. (narrowleaf hawkweed)

Lathyrus ochroleucus Hook. (cream peavine)

Linnaea borealis L. (twinflower)

Maianthemum canadense Desf. (Canada beadruby)

Mertensia paniculata (Ait.) G. Don (tall bluebells)

Petasites palmatus (Ait.) Gray (= Petasites frigidus var. palmatus, Arctic sweet coltsfoot)

Rubus pubescens Raf. (dwarf red blackberry)

Thalictrum venulosum Trel. (veiny meadowrue)

Other herbs observed in aspen woods include:

Achillea millefolium L. (common yarrow)

Arnica cordifolia Hook. (heartleaf arnica)

Aster conspicuus Lindl. (showy aster)

Aster puniceus L. (purplestem aster)

Delphinium glaucum S. Wats. (Sierra larkspur)

Disporum trachycarpum (S. Wats.) Benth. & Hook. f. (roughfruit fairybells)

Dryopteris expansa (K. Presl) F J & K (= Dryopteris assimilis S. Walker (spreading woodfern)

Dryopteris carthusiana (Vill.) H.P. Fuchs (spinulose woodfern)

Epilobium glandulosum Lehm. (= Epilobium ciliatum ssp. glandulosum, marsh willowherb)

Equisetum sylvaticum L. (woodland horsetail) Galium triflorum Michx. (fragrant bedstraw)

Gentiana amarella L. auct. p.p. (= Gentianella amarella ssp. acuta, marsh felwort)

Geranium richardsonii Fisch. & Trautv. (Richardson's geranium)

Heracleum maximum Bartr. (= Heracleum lanatum Michx. (common cowparsnip)

Lonicera involucrata Banks ex Spreng. (twinberry honeysuckle)

Lycopodium annotinum L. (stiff clubmoss)

Lycopodium complanatum L. (groundcedar) Lycopodium obscurum L. (rare clubmoss)

Melampyrum lineare Desr. (narrowleaf cowwheat)

Mitella nuda L. (naked miterwort)

Phegopteris connectilis (Michx.) Watt (long beechfern)

Pyrola elliptica Nutt. (waxflower shinleaf)

Rubus pedatus Sm. (strawberryleaf raspberry)

Smilacina racemosa (L.) Desf. (= Smilacina racemosa (L.) Desf. (feathery false Solomon's seal)

Streptopus amplexifolius (L.) DC. (claspleaf twistedstalk)

Tiarella trifoliata L. (threeleaf foamflower)

Trientalis borealis Raf. (American starflower)

Urtica dioica L. (stinging nettle)

Vicia americana Muhl. ex Willd. (American vetch)

Viola palustris L. (marsh violet)

Pleurozium schreberi (Schreber's big red stem moss) and Hylocomium splendens (splendid feather moss) are the dominant non-vascular plants but generally they do not form much of the cover. Ptilium crista-castrensis (Hedw.) De Not. (knights plume moss) also occurs on moister, more closed sites.

Lichens on tree bark are:

Bryoria Brodo & D. Hawksw. (horsehair lichen)
Caloplaca Th. Fr. (orange lichen)
Cetraria Ach. (cetraria lichen)
Cetraria pinastri (Scop.) Gray (= Vulpicida pinastri)
Evernia mesomorpha Nyl. (ring lichen)
Hypogymnia physodes (L.) Nyl. (tube lichen)
Parmelia sulcata Taylor (shield lichen)
Physcia (Schreber) Michaux (rosette lichen)
Usnea Dill. ex Adans. (beard lichen)

4.1.2 Wildlife

A total of 19 animal species have been recorded in deciduous birch/aspen. This type includes habitats (aspen and balsam poplar woods) that are very restricted in the study area. These habitats and the associated species are more prevalent at lower elevations in the region. Although the species diversity is not high, 4 bird species occur that are restricted to this habitat type in the study area

The majority of species are of relatively infrequent occurrence in this habitat, which is partly a reflection of the limited representation of this habitat in the study area. Ungulate use appeared to be relatively sparse. Wildlife species restricted to deciduous birch/aspen include the following:

Hairy Woodpecker (perched wetland balsam poplar)
Red-eyed Vireo (aspen)
Yellow Warbler (aspen-birch-meadow)
Connecticut Warbler (aspen)

Additional wildlife species observed in deciduous birch/aspen, but also occurring in other habitats, include the following:

Yellow-bellied Sapsucker Warbling Vireo Black-capped Chickadee Boreal Chickadee Yellow-rumped Warbler American Redstart Mourning Warbler Common Yellowthroat Chipping Sparrow White-throated Sparrow Evening Grosbeak Rose-breasted Grosbeak Red Squirrel Deer Mouse Moose

4.2 Valley/Ridge: Conifer-Black Spruce





4.2.1 Vegetation

Black spruce bogs and forest occur throughout the park on the plateaux. Overall plant diversity in these habitats is low although several species occur nowhere else. Black spruce bogs are typified by Organic soils.

The dominant species is *Picea mariana* (*P. Mill.*) *B.S.P.* (black spruce) with mostly very closed canopy covers and moderate tree height. *Abies lasiocarpa* (*Hook.*) *Nutt.* (subalpine fir), *Betula neoalaskana Sarg.* (Alaska paper birch) and *Pinus contorta Dougl. ex Loud.* (lodgepole pine) are sometimes present in low cover values and seldom reach covers of 10%. There is some regeneration of *Picea mariana* (*P. Mill.*) *B.S.P.* (black spruce) and *Betula papyrifera* (paper birch).

Picea mariana (P. Mill.) B.S.P. (black spruce) and Abies lasiocarpa (Hook.) Nutt. (subalpine fir) are the most common species regenerating in the understorey but Pinus contorta Dougl. ex Loud. (lodgepole pine) and Betula neoalaskana Sarg. (Alaska paper birch) are less frequent.

Tall shrubs are present with low cover values:

Salix discolor Muhl. (pussy willow) Sorbus scopulina Greene (Greene mountainash)

Ledum groenlandicum Oeder (bog Labradortea) and Vaccinium myrtilloides Michx. (velvetleaf huckleberry) are the dominant low shrubs. Vaccinium vitis-idaea L. (lingonberry) is a frequent dwarf shrub.

Other low and dwarf shrubs typically occur at low cover values (<10%) but may be locally dominant in wetter sites:

Andromeda polifolia L. (bog rosemary)
Chamaedaphne calyculata (L.) Moench (leatherleaf)
Vaccinium membranaceum Dougl. ex Torr. (blue huckleberry)
Viburnum edule (Michx.) Raf. (mooseberry viburnum)

Important herbs of black spruce include *Rubus chamaemorus L.* (cloudberry) and *Rubus pedatus Sm.* (strawberryleaf raspberry). *Gaultheria hispidula (L.) Muhl. ex Bigelow* (creeping snowberry), *Carex deweyana Schwein.* (Dewey sedge), *Cornus canadensis L.* (bunchberry dogwood), *Carex pauciflora Lightf.* (star sedge), and *Maianthemum trifolium (L.) Sloboda* (= *Smilacina trifolia (L.) Desf.*, threeleaf false Solomon's seal) are locally important. Most other herbs are typically present at low cover values. Other herbs found in black spruce include:

Aster ciliolatus Lindl. (Lindley's aster)
Athyrium filix-femina (L.) Roth (common ladyfern)
Beckmannia syzigachne (Steud.) Fern. (American sloughgrass)
Carex magellanica ssp. magellanica Lam. (= Carex paupercula Mx., little sedge)
Dryopteris expansa (K. Presl) F J & K (= Dryopteris assimilis S. Walker (spreading woodfern)
Equisetum sylvaticum L. (woodland horsetail)
Eriophorum vaginatum L. (tussock cottongrass)
Fragaria virginiana Duchesne (Virginia strawberry)
Linnaea borealis L. (twinflower)

Lycopodium annotinum L. (stiff clubmoss)
Moneses uniflora (L.) Gray (single delight)
Rubus pubescens Raf. (dwarf red blackberry)
Streptopus amplexifolius (L.) DC. (claspleaf twistedstalk)
Trientalis borealis Raf. (American starflower)

The ground cover is composed largely of non-vascular plants. The most abundant are the various *Sphagnum spp.* (sphagnum), *Pleurozium schreberi (Brid.) Mitt.* (Schreber's big red stem moss), and *Ptilium crista-castrensis (Hedw.) De Not.* (knights plume moss). *Polytrichum commune Hedw.* (polytrichum moss) and *Hylocomium splendens (Hedw.) Schimp. in B.S.G.* (splendid feather moss) are locally dominant.

Other non-vascular species include:

Aulacomnium palustre (Hedw.) Schwaegr. (aulacomnium moss)
Cladina rangiferina (L.) Nyl. (greygreen reindeer lichen)
Cladonia sp. P. Browne (cup lichen)
Dicranum fuscescens Turn. (dicranum moss)
Dicranum undulatum Brid. (undulate dicranum moss)
Icmadophila ericetorum (L.) Zahlbr. (peppermint drop lichen)
Peltigera aphthosa (L.) Willd. (felt lichen)

Lichens on tree bark include:

Bryoria Brodo & D. Hawksw. (horsehair lichen) Cetraria sp.Ach. (cetraria lichen) Evernia mesomorpha Nyl. (ring lichen) Hypogymnia physodes (L.) Nyl. (tube lichen) Usnea sp. Dill. ex Adans. (beard lichen)

4.2.2 Wildlife

Wildlife species diversity is relatively low in conifer-black spruce. A total of 23 animal species have been observed, all of which occur in other parts of the study area. During this survey, local concentrations of deer, elk and moose were recorded in this habitat. Characteristic, frequently occurring, wildlife of conifer-black spruce include the following species:

Spruce Grouse (dry)
Gray Jay (dry and bog)
Yellow-rumped Warbler (dry and bog)
Chipping Sparrow (dry and bog)
Dark-eyed Junco (dry, bog and burn)
Pine Siskin (dry, bog and burn)
Red Squirrel (dry and bog)
Snowshoe Hare (dry)
Moose (dry, bog and burn)

Other species observed less frequently in conifer-black spruce include the following:

Three-toed Woodpecker (dry and burn)

Olive-sided Flycatcher (dry - post-breeding)
Common Raven (dry, bog and burn)
Boreal Chickadee (dry and bog)
Red-breasted Nuthatch (bog and burn)
Golden-crowned Kinglet (bog - post-breeding)
Ruby-crowned Kinglet (dry)
American Robin (burn)
Blackpoll Warbler (migrant)
Southern Red-backed Vole (dry)
Coyote (dry)
Marten (dry)
Wapiti (dry)
Deer sp. (dry)

4.3 Valley/Ridge: Coniferous and Coniferous Mixedwood



4.3.1 Vegetation

Mixed coniferous and coniferous-dominated woodlands are the most widespread of the forest types. They are characterized by a low to moderate trunk density and a closed to open canopy coverage. Heights are in the 15 to 20 m range. Mixed woods are typified by Gray Luvisols. There is a great variety of plant species that occur in this type and there is considerable heterogeneity in the vegetation. Plateau woodlands typically have a greater proportion of coniferous species, especially *Abies lasiocarpa (Hook.) Nutt.* (subalpine fir) and *Picea mariana (P. Mill.) B.S.P.* (black spruce).

The dominant tree species is often *Abies lasiocarpa (Hook.) Nutt.* (subalpine fir) with canopy covers in the 15-50% range. *Betula neoalaskana Sarg.* (Alaska paper birch) and *Populus tremuloides Michx.* (quaking aspen) are almost always present in lower cover values (typically 5-15%). *Picea glauca (Moench) Voss* (white spruce) and *Picea mariana (P. Mill.) B.S.P.* (black spruce) are quite variable in cover (typically 10-30%, but as high as 50%) and distribution (present in about 2/3 of stands). *Pinus contorta Dougl. ex Loud.* (lodgepole pine) occurs in less than half the stands and has cover values ranging from 1 to 50%.

While all species may be found in the regeneration, the most abundant species are *Abies lasiocarpa (Hook.) Nutt.* (subalpine fir) with cover as high as 60%. The next most common species in regeneration is *Picea mariana (P. Mill.) B.S.P.* (black spruce).

Cover values of taller shrubs tend to be low. Sorbus scopulina Greene (Greene mountainash) is the most frequently found. Oplopanax horridus Miq. (devilsclub) occasionally has cover values up to 30% but is found in very few of the stands. Other tall shrubs found in this type include:

Alnus crispa (Ait.) Pursh (= Alnus viridis ssp. crispa)
Alnus tenuifolia Nutt. (= Alnus incana ssp. tenuifolia)
Amelanchier alnifolia (Nutt.) Nutt. ex M. Roemer (Saskatoon serviceberry)
Oplopanax horridus Miq. (devilsclub)
Prunus pensylvanica L. f. (pin cherry)
Salix arbusculoides Anderss. (littletree willow)
Salix bebbiana Sarg. (Bebb willow)
Sambucus pubens Michx. (red elderberry)

Low shrubs, Ledum groenlandicum Oeder (bog Labradortea), Vaccinium membranaceum Dougl. ex Torr. (blue huckleberry) and Vaccinium myrtilloides Michx. (velvetleaf huckleberry), are dominant in this layer with the last being most abundant (typical cover values of 10-20%). Other low shrubs that make up a small part of the cover include:

Ribes glandulosum Grauer (skunk currant)
Ribes hirtellum Michx. (hairystem gooseberry)
Ribes lacustre (Pers.) Poir. (prickly currant)
Ribes triste Pallas (red currant)
Rosa acicularis Lindl. (prickly rose)
Rubus idaeus L. (American red raspberry)
Rubus parviflorus Nutt. (thimbleberry)
Symphoricarpos albus (L.) Blake (common snowberry)
Vibumum edule (Michx.) Raf. (mooseberry viburnum)

The dwarf shrub, Vaccinium vitis-idaea L. (lingonberry) is occasionally present in low cover values.

The principal dominant herbs with cover values of 10-30% and that are found in most plots are:

Calamagrostis canadensis (Michx.) Beauv. (bluejoint) Cornus canadensis L. (bunchberry dogwood) Rubus pedatus Sm. (strawberryleaf raspberry) Other important herbs of mixed woods that have a high constancy or that locally have high cover values include:

Dryopteris expansa (K. Presl) F J & K (= Dryopteris assimilis S. Walker (spreading woodfern)

Epilobium angustifolium L. (fireweed)

Equisetum sylvaticum L. (woodland horsetail)

Gymnocarpium dryopteris (L.) Newman (western oakfern)

Linnaea borealis L. (twinflower)

Lycopodium annotinum L. (stiff clubmoss)

Maianthemum canadense Desf. (Canada beadruby)

Petasites palmatus (Ait.) Gray (= Petasites frigidus var. palmatus)

Streptopus amplexifolius (L.) DC. (claspleaf twistedstalk)

Trientalis borealis Raf. (American starflower)

Aralia nudicaulis L. (wild sarsaparilla) is locally important in slope coniferous mixedwood but occurs in very few stands.

Other herbs observed in mixed woods include:

Achillea millefolium L. (common yarrow)

Actaea rubra (Ait.) Willd. (red baneberry)

Aralia nudicaulis L. (wild sarsaparilla)

Arnica cordifolia Hook. (heartleaf arnica)

Aster ciliolatus Lindl. (Lindley's aster)

Aster conspicuus Lindl. (showy aster)

Athyrium filix-femina (L.) Roth (common ladyfern)

Delphinium glaucum S. Wats. (Sierra larkspur)

Dryopteris carthusiana (Vill.) H.P. Fuchs (spinulose woodfern)

Galium boreale L. (northern bedstraw)

Galium triflorum Michx. (fragrant bedstraw)

Gaultheria hispidula (L.) Muhl. ex Bigelow (creeping snowberry)

Geranium richardsonii Fisch. & Trautv. (Richardson's geranium)

Listera cordata (L.) R. Br. ex Ait. f. (heartleaf twayblade)

Lonicera involucrata Banks ex Spreng. (twinberry honeysuckle)

Heracleum maximum Bartr. (= Heracleum lanatum Michx. (common cowparsnip)

Hieracium umbellatum L. (narrowleaf hawkweed)

Lathyrus ochroleucus Hook. (cream peavine)

Lycopodium complanatum L. (groundcedar)

Maianthemum racemosum (L.) Link (=Smilacina racemosa (L.) Desf., feathery false Solomon's seal)

Mertensia paniculata (Ait.) G. Don (tall bluebells)

Mitella nuda L. (naked miterwort)

Orthilia secunda (L.) House (sidebells wintergreen)

Phegopteris connectilis (Michx.) Watt (long beechfern)

Pyrola elliptica Nutt. (waxflower shinleaf)

Rubus pubescens Raf. (dwarf red blackberry)

Schizachne purpurascens (Torr.) Swallen (false melic)

Senecio triangularis Hook. (arrowleaf groundsel)

Smilacina racemosa (L.) Desf. (= Maianthemum racemosum ssp. racemosum)

Solidago canadensis L. (Canada goldenrod)
Thalictrum venulosum Trel. (veiny meadowrue)
Tiarella trifoliata L. (threeleaf foamflower)
Tiarella trifoliata var. unifoliata (Hook.) Kurtz (= Tiarella trifoliata var. unifoliata, oneleaf foamflower)
Vicia americana Muhl. ex Willd. (American vetch)
Viola palustris L. (marsh violet)

Pleurozium schreberi (Brid.) Mitt. (Schreber's big red stem moss) and Ptilium crista-castrensis (Hedw.) De Not. (knights plume moss) are the most abundant mosses with some significant cover values (10-50% and 5-20% respectively) in these woodlands. Hylocomium splendens (Hedw.) Schimp. in B.S.G. (splendid feather moss) is locally very important.

Other ground-dwelling non-vascular plants include:

Cladina mitis (Sandst.) Hustich (reindeer lichen)
Cladina rangiferina (L.) Nyl. (greygreen reindeer lichen)
Dicranum fuscescens Turn. (dicranum moss)
Dicranum undulatum Brid. (undulate dicranum moss)
Flavocetraria nivalis (L.) Karnefelt & Thell ()
Peltigera aphthosa (L.) Willd. (felt lichen)
Polytrichum commune Hedw. (polytrichum moss)
Sphagnum L. (sphagnum)

Bark and twig lichens include:

Bryoria Brodo & D. Hawksw. (horsehair lichen)
Cetraria sp. Ach. (cetraria lichen)
Cetraria pinastri (Scop.) Gray (= Vulpicida pinastri)
Evernia mesomorpha Nyl. (ring lichen)
Hypogymnia physodes (L.) Nyl. (tube lichen)
Parmelia sulcata Taylor (shield lichen)
Usnea sp. Dill. ex Adans. (beard lichen)

4.3.2 Wildlife

Coniferous/deciduous mixedwood contains the greatest wildlife diversity in the study area. Including burn areas, a total of 50 animal species have been observed here, including 10 species not found elsewhere in the study area. Most of these restricted species are relatively scarce in the study area. This habitat category contains important ungulate browse and overwintering areas.

Characteristic, frequently occurring, wildlife of coniferous (C)/deciduous (D) mixedwood include the following species:

Three-toed Woodpecker (burn) C Gray Jay Common Raven Red-breasted Nuthatch C Golden-Crowned Kinglet C
Ruby-crowned Kinglet C
Swainson's Thrush
Yellow-rumped Warbler (burn)
Chipping Sparrow (burn)
Dark-eyed Junco C
Pine Siskin (burn) C
Snowshoe Hare
Wapiti
Deer sp. (mostly White-tailed)
Moose (burn)

Additional species occurring less frequently in coniferous (C)/deciduous (D)-mixedwood, but not recorded elsewhere in the study area, include the following:

Red-tailed Hawk
Black-backed Woodpecker (burn) C
Northern Flicker (burn)
Brown Creeper C
Winter Wren C
Magnolia Warbler
Lincoln's Sparrow
White-winged Crossbill C
Masked Shrew
Gray Wolf

Other species observed less frequently in coniferous/deciduous mixedwood, and not restricted to them, include:

Spruce Grouse (burn) C Yellow-bellied Sapsucker D Olive-sided Flycatcher (burn) C Blue-headed Vireo D Warbling Vireo D Black-billed Magpie (winter) Black-capped Chickadee D Boreal Chickadee C American Robin (burn) Cedar Waxwing D Tennessee Warbler D Black-throated Green Warbler C Mourning Warbler D Canada Warbler White-throated Sparrow (burn) D Evening Grosbeak Rose-breasted Grosbeak D Red Squirrel C

Ruffed Grouse

Deer Mouse

Southern Red-backed Vole Coyote Black Bear Marten Mule Deer

C - shows a preference for coniferous-dominated woods; D - shows a preference for deciduous-dominated woods

4.4 Valley/Ridge: Conifer-Pine



4.4.1 Vegetation

Pure pine woodlands are found mainly in the southern half of the park. They are characterized by a moderate trunk density and a closed to moderately open canopy coverage. Heights are in the 12-18 m range. The largest extent of pine in the eastern arm of the park was completely burned in the 1998 fire.

The dominant tree species is *Pinus contorta Dougl. ex Loud.* (lodgepole pine and its hybrids). Locally co-dominant species include: *Picea glauca (Moench) Voss* (white spruce) and *Abies lasiocarpa (Hook.) Nutt.* (subalpine fir). *Betula neoalaskana Sarg.* (Alaska paper birch) is found in most pine forests but only at very low cover.

Abies lasiocarpa (Hook.) Nutt. (subalpine fir) and Betula neoalaskana Sarg are the most common and abundant species in the regeneration layer.

Cover values of tall shrubs are low. The most widespread is *Sorbus scopulina Greene* (Greene mountainash) and it was found in all stands surveyed. Other tall shrubs include:

Amelanchier alnifolia (Nutt.) Nutt. ex M. Roemer (Saskatoon serviceberry) Prunus pensylvanica L. f. (pin cherry) Sambucus pubens Michx. (red elderberry)

Ledum groenlandicum Oeder (bog Labradortea) and Vaccinium myrtilloides Michx. (velvetleaf huckleberry) are dominant in the low shrub layer with cover values in the 30-55% range. Other low shrubs that make up a small part of the cover include Viburnum edule (mooseberry viburnum) and Shepherdia canadensis (russet buffaloberry). Vaccinium membranaceum Dougl. ex Torr. (blue huckleberry) has a high constancy value but relatively low cover. Other low shrubs include:

Betula pumila L. (swamp birch)
Rosa acicularis Lindl. (prickly rose)
Vaccinium cespitosum Michx. (dwarf blueberry)
Viburnum edule (Michx.) Raf. (mooseberry viburnum)

The dwarf shrub *Vaccinium vitis-idaea L.* (lingonberry) is occasionally present in significant cover values. *Vaccinium cespitosum* (dwarf blueberry) is often found at low cover values.

The principal dominant herbs are: *Cornus canadensis L.* (bunchberry dogwood), *Calamagrostis canadensis (Michx.) Beauv.* (bluejoint), and *Lycopodium annotinum L.* (stiff clubmoss).

Other important (high constancy but low cover) herbs of pine and pine-aspen woods include:

Athyrium filix-femina (L.) Roth (common ladyfern)
Epilobium angustifolium L. (fireweed)
Lycopodium annotinum L. (stiff clubmoss)
Rubus pedatus Sm. (strawberryleaf raspberry)
Maianthemum canadense Desf. (Canada beadruby)
Streptopus amplexifolius (L.) DC. (claspleaf twistedstalk)

Other herbs observed in pine woods include:

Aster ciliolatus Lindl. (Lindley's aster)

Carex deweyana Schwein. (Dewey sedge)

Cinna latifolia (Trev. ex Goepp.) Griseb. (drooping woodreed)

Dryopteris expansa (K. Presl) F J & K (= Dryopteris assimilis S. Walker (spreading woodfern)

Dryopteris carthusiana (Vill.) H.P. Fuchs (spinulose woodfern)

Equisetum sylvaticum L. (woodland horsetail)

Hieracium albiflorum Hook. (white hawkweed)

Hieracium umbellatum L. (narrowleaf hawkweed)

Linnaea borealis L. (twinflower)

Lonicera involucrata Banks ex Spreng. (twinberry honeysuckle)

Lycopodium complanatum L. (groundcedar)

Orthilia secunda (L.) House (sidebells wintergreen)

Rubus pubescens Raf. (dwarf red blackberry)

Schizachne purpurascens (Torr.) Swallen (false melic)

Trientalis borealis Raf. (American starflower) Viola palustris L. (marsh violet)

Pleurozium schreberi (Brid.) Mitt. (Schreber's big red stem moss) and Ptilium crista-castrensis (Hedw.) De Not. (knights plume moss) are the most abundant mosses with some significant (up to 35%) cover values in pine woodlands. Other ground-dwelling non-vascular plants in these woods include:

Cladina mitis (Sandst.) Hustich (reindeer lichen)
Cladonia P. Browne (cup lichen)
Dicranum fuscescens Turn. (dicranum moss)
Hylocomium splendens (Hedw.) Schimp. in B.S.G. (splendid feather moss)
Polytrichum commune Hedw. (polytrichum moss)

Lichens on tree bark include:

Bryoria Brodo & D. Hawksw. (horsehair lichen)
Cetraria Ach. (cetraria lichen)
Cetraria pinastri (Scop.) Gray (= Vulpicida pinastri)
Evernia mesomorpha Nyl. (ring lichen)
Hypogymnia physodes (L.) Nyl. (tube lichen)
Physcia (Schreber) Michaux (rosette lichen)
Usnea Dill. ex Adans. (beard lichen)

4.4.2 Wildlife

Wildlife species diversity is relatively low in conifer-pine, partly attributable to most of it being burned. A total of 8 animal species have been observed, all of which occur in other parts of the study area (all species were recorded in burned habitat unless otherwise noted):

Three-toed Woodpecker
American Robin
Chipping Sparrow
Dark-eyed Junco
Yellow-rumped Warbler
Pine Siskin
Red Squirrel (unburned pine-blueberry)
Moose

4.5 Wetland-Mineral: Graminoid and Wetland-Lake



4.5.1 Vegetation

There are very few graminoid dominated wetlands in the park. Wetlands and open water are very scarce. There is one small lake in the southeast corner of the park.

Dominants in the graminoid wetlands varies widely from one site to the next.

Woody cover is very low. Shrubs include:

Salix planifolia Pursh (diamondleaf willow)
Betula glandulosa Michx. (bog birch)
Ledum groenlandicum Oeder (bog Labradortea)
Vaccinium myrtilloides Michx. (velvetleaf huckleberry)
Vaccinium vitis-idaea L. (lingonberry)

Calamagrostis canadensis (bluejoint) occurs in all types, dominating in about half of the sites.

Other dominant or frequent herbaceous species of willow swamps include:

Carex aquatilis Wahlenb. (water sedge)
Carex deweyana Schwein. (Dewey sedge)
Carex magellanica ssp. magellanica Lam. (= Carex paupercula Mx., little sedge)
Carex utriculata Boott (Northwest Territory sedge)
Juncus filiformis L. (thread rush)

Comarum palustre L. (= Potentilla palustris (L.) Scop, purple marshlocks) Scirpus microcarpus J.& K. Presl (panicled bulrush)

Other herbs observed in willow swamps include:

Achillea sibirica Ledeb. (Siberian yarrow)

Agrostis scabra Willd. (rough bentgrass)

Beckmannia syzigachne (Steud.) Fern. (American sloughgrass)

Bidens cernua L. (nodding beggartick)

Caltha natans Pallas (floating marsh-marigold)

Carex diandra Schrank (lesser panicled sedge)

Carex pauciflora Lightf. (star sedge)

Cerastium nutans Raf. (nodding chickweed)

Epilobium ciliatum ssp. glandulosum (Lehm.) Hoch & Raven (= Epilobium glandulosum Lehm., glandular willowweed)

Eriophorum vaginatum L. (tussock cottongrass)

Fragaria virginiana Duchesne (Virginia strawberry)

Impatiens noli-tangere L. (western touchmenot)

Ranunculus gmelinii DC. (Gmelin's buttercup)

Rubus chamaemorus L. (cloudberry)

Maianthemum trifolium (L.) Sloboda . (= Smilacina trifolia (L.) Desf, threeleaf false Solomon's seal)

Non-vascular species are quite scarce but the following were found, sometimes with up to 50% cover.

Campylium stellatum (Hedw.) C. Jens. (star campylium moss)

Drepanocladus (C. Mll.) G. Roth (drepanocladus moss)

Sphagnum L. (sphagnum)

Sphagnum magellanicum Brid. (Magellan's sphagnum)

4.5.2 Wildlife

The only small lake, in a valley in the southeastern corner of the study area, was relatively unproductive for wildlife, with Mallard being the only species recorded. However, this area is potential breeding habitat for Wood Frog and foraging habitat for Moose.

Locally occurring slope perched wetlands were also relatively unproductive. However, the Solitary Sandpiper appears to be restricted to this habitat, in the study area, for breeding. In addition, perched wetland are potential habitats for breeding amphibians and foraging Moose.

4.6 Wetland-Organic: Open Bog



4.6.1 Vegetation

Black spruce bogs occur throughout the park's plateaux but very few have open untreed areas. Overall plant diversity in these open habitats is low although several species occur nowhere else. Black spruce bogs are typified by Organic soils.

The dominant species are *Picea mariana* (black spruce) and *Pinus contorta Dougl. ex Loud.* (lodgepole pine). These are usually quite stunted and there are low canopy covers. *Abies lasiocarpa* (Hook.) Nutt. (subalpine fir) and *Betula neoalaskana Sarg.* (Alaska paper birch) also occur in very small numbers

Larix laricina (tamarack) is sometimes present in low cover values and occasionally may reach covers of 15%. There is some regeneration of *Picea mariana* (black spruce) and *Betula papyrifera* (paper birch). The principal community type is *Picea mariana* (black spruce)/Ledum groenlandicum (bog Labradortea)/Sphagnum.

Ledum groenlandicum (bog Labradortea), Andromeda polifolia L. (bog rosemary) and Chamaedaphne calyculata (L.) Moench (leatherleaf) are the dominant low shrubs. Other low and dwarf shrubs typically occur at low cover values:

Betula pumila L. (swamp birch)
Kalmia polifolia Wangenh. (bog laurel)
Vaccinium membranaceum Dougl. ex Torr. (blue huckleberry)
Vaccinium myrtilloides Michx. (velvetleaf huckleberry)

Vaccinium vitis-idaea L. (lingonberry)

Important herbs of black spruce bogs include *Carex pauciflora Lightf.* (star sedge) which may make up a significant percentage of the understory plants in wetter areas, *Carex aquatilis Wahlenb.* (water sedge), *Eriophorum vaginatum* (tussock cottongrass), *Rubus chamaemorus L.* (cloudberry), *Vaccinium oxycoccos L.* (small cranberry) and *Maianthemum trifolium* (= *Smilacina trifolia L. Desf.*, threeleaf false Solomon's seal). Most herbs are typically present at low cover values.

Other herbs found in black spruce bogs include:

Vaccinium oxycoccos L. (small cranberry)
Carex deweyana Schwein. (Dewey sedge)
Carex limosa L. (mud sedge)
Carex paupercula Michx. (= Carex magellanica ssp. magellanica)
Eriophorum brachyantherum Trautv. & C.A. Mey. (northland cottonsedge)
Gaultheria hispidula (L.) Muhl. ex Bigelow (creeping snowberry)

The ground cover is composed largely of non-vascular plants, especially *Sphagnum*. The most abundant is *Sphagnum fuscum (Schimp.) Klinggr.* (sphagnum). Other non-vascular species include:

Aulacomnium palustre (Hedw.) Schwaegr. (aulacomnium moss)
Cladina mitis (Sandst.) Hustich (reindeer lichen)
Pleurozium schreberi (Brid.) Mitt. (Schreber's big red stem moss)
Bryoria Brodo & D. Hawksw. (horsehair lichen), on bark
Cetraria Ach. (cetraria lichen), on bark
Evernia mesomorpha Nyl. (ring lichen), on bark
Hypogymnia physodes (L.) Nyl. (tube lichen), on bark
Usnea Dill. ex Adans. (beard lichen), on bark

4.6.2 Wildlife

The only wildlife species identified in open bog habitat was Great Gray Owl, recorded nowhere else in the study area. No small mammals or mammal browse were recorded. However, this habitat has potential for foraging Moose, as well as breeding and post-breeding Wood Frogs.

4.7 Special: - Meadow Complex



4.7.1 Vegetation

Meadow complexes are very diverse. They include open bluejoint meadows, park-like areas with scattered birch and alder as well as adjacent small streams. The meadow complexes occur on a variety of slopes throughout the study area.

The dominant tree species is *Betula neoalaskana Sarg.* (Alaska paper birch). However, the following species can also be found as scattered trees or as young regeneration, reflecting the surrounding woodland:

Abies lasiocarpa (Hook.) Nutt. (subalpine fir)
Picea glauca (Moench) Voss (white spruce)
Picea mariana (P. Mill.) B.S.P. (black spruce)
Pinus contorta Dougl. ex Loud. (lodgepole pine)
Populus balsamifera L. (balsam poplar)
Populus tremuloides Michx. (quaking aspen)

Alnus incana ssp. rugosa (Du Roi) (= Alnus tenuifolia Nutt. (speckled alder) is the dominant tall shrub. Sorbus scopulina Greene (Greene mountainash) and Sambucus pubens Michx. (red elderberry) are occasionally important tall shrubs.

Other tall shrubs include:

Alnus crispa (Ait.) Pursh (= Alnus viridis ssp. crispa)

Amelanchier alnifolia (Nutt.) Nutt. ex M. Roemer (Saskatoon serviceberry)

Oplopanax horridus Miq. (devilsclub)

Prunus pensylvanica L. f. (pin cherry)

Salix arbusculoides Anderss. (littletree willow)

Salix bebbiana Sarg. (Bebb willow)

Salix discolor Muhl. (pussy willow)

Salix planifolia Pursh (diamondleaf willow)

Rubus idaeus L. (American red raspberry) is the most important low shrub. It has a high constancy across most plots and significant cover values (10-25%). Other species tend to be only occasionally found and with low cover values. A notable exception is *Rubus parviflorus Nutt*. (thimbleberry) which had 75% cover. Other low shrubs include:

Ribes hirtellum Michx. (hairystem gooseberry)

Rosa acicularis Lindl. (prickly rose)

Vaccinium myrtilloides Michx. (velvetleaf huckleberry)

Vibumum edule (Michx.) Raf. (mooseberry viburnum)

The open meadows and the open understory in the woods are dominated by *Calamagrostis* canadensis (bluejoint) with up to 80% cover. Other important (high constancy or high cover) herbaceous species include:

Athyrium filix-femina (L.) Roth (common ladyfern)

Epilobium angustifolium L. (fireweed)

Aralia nudicaulis L. (wild sarsaparilla)

Equisetum sylvaticum L. (woodland horsetail)

Gymnocarpium dryopteris (L.) Newman (western oakfern)

Heracleum maximum Bartr. (= Heracleum lanatum Michx. (common cowparsnip)

Urtica dioica L. (stinging nettle)

Other herbaceous species found in these meadows include:

Achillea millefolium L. (common yarrow)

Actaea rubra (Ait.) Willd. (red baneberry)

Aster ciliolatus Lindl. (Lindley's aster)

Aster puniceus L. (purplestem aster)

Bromus ciliatus L. (fringed brome)

Carex aenea Fem. (bronze sedge)

Comus canadensis L. (bunchberry dogwood)

Dryopteris expansa (K. Presl) F J & K (= Dryopteris assimilis S. Walker (spreading woodfem)

Dryopteris carthusiana (Vill.) H.P. Fuchs (spinulose woodfern)

Fragaria virginiana Duchesne (Virginia strawberry)

Galium boreale L. (northern bedstraw)

Geranium richardsonii Fisch. & Trautv. (Richardson's geranium)

Hieracium umbellatum L. (narrowleaf hawkweed)

Lathyrus ochroleucus Hook. (cream peavine)

Linnaea borealis L. (twinflower)

Lonicera involucrata Banks ex Spreng. (twinberry honeysuckle)

Lycopodium obscurum L. (rare clubmoss)

Maianthemum canadense Desf. (Canada beadruby)

Mertensia paniculata (Ait.) G. Don (tall bluebells)

Petasites frigidus var. palmatus (Ait.) Cronq. (= Petasites palmatus (Ait.) Gray, Arctic sweet coltsfoot)

Rubus pubescens Raf. (dwarf red blackberry)

Solidago canadensis L. (Canada goldenrod)

Thalictrum venulosum Trel. (veiny meadowrue)

Trientalis borealis Raf. (American starflower)

Vicia americana Muhl. ex Willd. (American vetch)

Viola palustris L. (marsh violet)

4.7.2 Wildlife

A total of 39 animal species, including 8 not found elsewhere in the study area, have been recorded in meadow complex areas. These habitats are important for a diversity of breeding birds and migrating songbirds. Meadow complexes also contain key ungulate browse and overwintering habitat. Characteristic, frequently occurring, wildlife of meadow complex habitats include the following species:

Warbling Vireo

Tennessee Warbler

Yellow-rumped Warbler

White-throated Sparrow

Chipping Sparrow

Marten

Wapiti

Deer sp. (winter: mostly White-tailed)

Moose

Additional wildlife observed less frequently in meadow complex habitats, but confined to them, include the following:

Boreal Chorus Frog (springs)

Pileated Woodpecker (visitor)

Tree Swallow (only riparian)

Alder Flycatcher

Least Flycatcher (aspen)

Palm Warbler (migrant)

Meadow Jumping Mouse (reed grass meadow)

Canada Lynx

Other species observed less frequently in meadow complex habitats, and not confined to them, include the following:

Ruffed Grouse

Yellow-bellied Sapsucker

Blue-headed Vireo (only riparian)

Gray Jay

Common Raven

Boreal Chickadee (only riparian) Brown Creeper (post-breeding) Golden-crowned Kinglet (only riparian) Swainson's Thrush American Robin Cedar Waxwing Canada Warbler Black-throated Green Warbler (scattered large spruce) American Redstart Mourning Warbler Common Yellowthroat Pine Siskin Rose-breasted Grosbeak Snowshoe Hare Red Squirrel Deer Mouse Black Bear

4.8 DISTURBED

No vegetation or wildlife surveys were done in disturbed habitats. The only major disturbances are cutblocks in the extreme southern portion of the study area. A low density of seismic lines traverse the area.

5. SPECIAL FEATURES

Several areas of the park are considered "special" features. In addition to the ones listed below, the entire pre-glacial gravel capped plateau should be considered as special (see Map 2). The following criteria were used to select sites:

- productivity and diversity for breeding birds
- important large ungulate or carnivore habitat
- breeding habitat for blue-listed bird species
- tracking list plant communities or plant and animal species
- rare vegetation types (at park and provincial levels)

5.1 Rare Species and Communities

The following is a listing of the rare species and community features identified on Special Features Map 2.

JTM_GRID	UTM_EAST	UTM_NORTH	SPECIES	DATUM
11U	627819	6110065	BLACK-BACKED WOODPECKER - BREEDING	NAD27
11U	630812	6120452	BLACK-THROATED GREEN WARBLER - BREEDING	NAD27
11U	625825	6120460	BLACK-THROATED GREEN WARBLER - BREEDING	NAD27
11U	625797	6120941	BLACK-THROATED GREEN WARBLER - BREEDING	NAD27
11U	621227	6115514	COBBLE SPRING-LICHEN (VARIOUS CETRARIA, CLADINA, STEROCAULON AND RHIZOCARPON SPECIES)	NAD27
11U	625927	6119427	JUNCUS FILIFORMIS - SMALL WOODLAND POOL WITH SEVERAL HUNDRED PLANTS	NAD27
11U	625823	6119667	JUNCUS FILIFORMIS - SEVERAL TEN THOUSANDS OF PLANTS IN LARGE JUNCUS FILIFORMIS DOMINATED COMMUNITY (ON TRACKING LIST)	NAD27
11U	623304	6103257	JUNCUS FILIFORMIS - SMALL POOL ALONG CUTLINE, ONE HUNDRED PLANTS	NAD27
11U	622504	6103940	JUNCUS FILIFORMIS - SMALL POOL ALONG CUTLINE, ONE HUNDRED PLANTS	NAD27
11U	622126	6104283	JUNCUS FILIFORMIS - SMALL POOL ALONG CUTLINE, SEVERAL HUNDRED PLANTS	NAD27
11U	625738	6119426	JUNCUS FILIFORMIS - 10,000 PLANTS	NAD27
11U	626579	6119769	PHEGOPTERIS CONNECTILIS	NAD27
11U	625565	6119563	PHEGOPTERIS CONNECTILIS - 30 PLANTS	NAD27
11U	626446	6119319	PHEGOPTERIS CONNECTILIS - 50 PLANTS	NAD27
11U	624502	6109626	PHEGOPTERIS CONNECTILIS - SEVERAL 100 PLANTS	NAD27
11U	625334	6116694	PHEGOPTERIS CONNECTILIS - 450 PLANTS	NAD27
11U	625915	6119435	SPLACHNUM MOSS - ONE PATCH	NAD27



Juncus filiformis community



Diverse Complex/Old Growth (far south of Grizzly Ridge Wildland Park)

5.2 Diversity/Old Growth Complexes:

Two complexes with highly diverse vegetation and some old growth forest were identified. Both lie on the western slope or adjacent plateau, one in the extreme south and the other just south of the central portion along the valley of Adams Creek. These include coniferous mixedwood, pine, wetland complex and black spruce habitats. There are some very large pine, slope wetlands, meadows and large balsam poplar in the southern site and some slope wetlands, diverse slopes and large spruce, fir and balsam poplar in the northern site.

5.3 Open Bog/Water

Given their scarcity in the study area, the few scattered sizeable areas of open bog and standing water, including the small lake in the southeast are all mapped as "Special Features".

5.4 Meadow Complex

A high diversity of wildlife (39 species) occur in this type, including 8 species restricted to this habitat type in the study area. Most of these restricted species are relatively scarce in the study area. It is productive habitat for mixed flocks of migrating songbirds and it povides key ungulate browse habitat and mineral licks associated with springs.

This is a very scenic type with expansive vistas available in many of the complexes.

6. RECOMMENDATIONS

6.1 Future Research

Early season (April-May) field work would provide more information on several wildlife species, including owls, Ruffed Grouse and Wood Frogs, whose breeding calls are best surveyed at that season.

Every protected area should design a monitoring program to monitor changes in species and habitats over time. There is no one correct way to undertake a monitoring program. The resources of the agency and the rigours of any management plans may dictate what is needed. In other regions, very few long-term monitoring sites have been established. Those that have been established are now providing invaluable information about the state of Alberta's ecosystems.

6.2 Monitoring

For most types of resources, an annual monitoring plan is desirable. This does not mean that everything gets monitored every year, only that you have a certain set of activities to undertake each year. Many monitoring plans start out with a rigorous annual monitoring of each resource to set a baseline and to determine the range of natural variability. Following a three to five year period, the plan is revisited and the interval is usually lengthened to monitoring every three to five years.

Vegetation surveys are not typically done each year unless their is a management reason to do so. Resurveys every 5 to 20 years will be sufficient to monitor changes.

Wildlife ideally should be monitored every year for three years and then the program reevaluated to determine if the interval can be lengthened. Representative plots should be surveyed for birds, browse/pellet and winter tracks. Small mammal trapping is not recommended for monitoring due to the high relative cost. Winter tracking can also be expensive unless personnel are located on site.

Access to the Wildland Park is the biggest obstacle to monitoring a variety of sites. The northern portion near Grizzly Tower provides a good cross section of most habitats except pine. It is also the area most heavily used for human activities and would be in ideal area to establish monitoring locations. Monitoring sites should be based on the ease of undertaking and generally should be located close to established trails.

6.3 Management

Steps should be taken to limit off-highway vehicle use to designated routes or restrict it for management activities only. The area still has great value as it retains many wilderness characteristics.

Special features should be kept in mind when planning any developments or activities in the area.

The steep upper slopes present special special challenges when planning any trail development. The thin soils and steep erodable terrain are easily damaged.

7. REFERENCES

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Appendix 1. ANNOTATED LIST OF PLANTS

LYCOPODIACEAE (club-mosses)

Lycopodium annotinum L. -- stiff clubmoss Fairly common in mixed woods and pine woods, occasional in other woodlands.

Lycopodium clavatum L. -- running clubmoss Rare in mixed woodlands.

Lycopodium complanatum L. -- groundcedar Fairly common in mixed woods and pine woods, rare in other woodlands.

Lycopodium obscurum L. -- rare clubmoss Rare in deciduous-dominated woods

EQUISETACEAE (horsetails)

Equisetum arvense L. -- field horsetail Rare on moist sites, especially at lower elevations. **Equisetum fluviatile L.** -- water horsetail Very localized but sometimes abundant where found in standing water pools in slumps.

Equisetum sylvaticum L. -- woodland horsetail Fairly common in moister coniferous-dominated woodlands.

DRYOPTERIDACEAE (ferns)

Athyrium filix-femina (L.) Roth -- common ladyfern Widespread, occasionally dominant in a wide variety of forest types. Most abundant in meadow complex.

Dryopteris carthusiana (Vill.) H.P. Fuchs -- spinulose woodfern Scarce in a variety of woodlands, including pine and meadow complex.

Dryopteris expansa (K. Presl) Fraser-Jenkins & Jermy -- spreading woodfern Occasional in a variety of woodlands, most common in coniferous mixedwood.

Gymnocarpium dryopteris (L.) Newman -- western oakfern Locally dominant and widespread in all forest types except black spruce.

Phegopteris connectilis (Michx.) Watt -- long beechfern Very local but numerous where found in seepage sites along the upper slopes; a tracking list species, Rank: S2.

PINACEAE (pines)

Abies lasiocarpa (Hook.) Nutt. -- subalpine fir Dominant and widespread species of upper slopes, moist sites and the plateau. Likely introgressed with A. balsamea.

Picea glauca (Moench) Voss -- white spruce Widespread and dominant tree of mixed woods and white spruce woods. Regeneration in deciduous woods.

Picea mariana (P. Mill.) B.S.P. -- black spruce Dominant tree species on the plateau found in almost pure stands as well as in mixtures with deciduous and coniferous species.

Pinus contorta Dougl. ex Loud. -- lodgepole pine Dominant tree species on the plateau and adjacent slopes in the southern half of the area.

POACEAE (grasses)

Agrostis scabra Willd. -- rough bentgrass Very local in moist disturbed sites at lower elevations.

Beckmannia syzigachne (Steud.) Fern. -- American sloughgrass Very local in small woodland pools on lower slopes.

Bromus ciliatus L. -- fringed brome Scarce in meadow complex.

Calamagrostis canadensis (Michx.) Beauv. -- bluejoint Dominant grass in the meadow complex; common in a variety of woodlands.

Cinna latifolia (Trev. ex Goepp.) Griseb. -- drooping woodreed Scarce in moist pine woods. Festuca saximontana Rydb. -- Rocky Mountain fescue Noted only on open slopes at base of Grizzly Tower.

Oryzopsis asperifolia Michx. -- roughleaf ricegrass Recorded in pine woods.

Schizachne purpurascens (Torr.) Swallen -- false melic Very local in drier aspen and pine woods.

CYPERACEAE (sedges)

Carex aquatilis Wahlenb. -- water sedge Dominant species in wet meadows and open bogs.

Carex canescens L. -- silvery sedge Occasional in open bogs and along cutlines

Carex deweyana Schwein. (Dewey's sedge) Occasionally dominant, widespread in open bog areas and other woodland pools.

Carex diandra Schrank -- lesser panicled sedge. Scarce in small woodland pools on slopes.

Carex disperma Dewey -- softleaf sedge Local in wooded wetland edges.

Carex limosa L. -- mud sedge Local in wetter open bogs.

Carex pauciflora Lightf. (few-flowered sedge) -- Locally dominant in open bogs.

Carex paupercula Michx. (bog sedge) -- occasional in open bogs.

Carex utriculata Boott -- Northwest Territory sedge Locally dominant in wetland complexes and wetter portions of bogs.

Eriophorum brachyantherum Trautv. & C.A. Mey. -- northland cottonsedge Scarce in bons.

Eriophorum vaginatum L. -- tussock cottongrass Fairly common in black spruce bogs.

Scirpus microcarpus J.& K. Presi -- panicled bulrush Locally common along streams and in shallow water.

JUNCACEAE (rushes)

Juncus filiformis L. (thread rush) - rare species; Rank S2; Very locally dominant in natural wooded plateau pools and along cutlines.

LILIACEAE (lilies)

Disporum trachycarpum (S. Wats.) Benth. & Hook. f. -- roughfruit fairybells Scarce, in drier lowland aspen woods

Maianthemum canadense Dest. -- Canada beadruby Also known as wild lily of the valley. Fairly common in a variety of deciduous, mixed, and pine woodlands. Most prevalent in deciduous dominated sites.

Maianthemum racemosum (L.) Link -- feathery false Solomon's seal = Smilacina racemosa
 (L.) Desf. Occasional, sometimes growing in patches in more mature deciduous and mixed woods.

Maianthemum trifolium (L.) Sloboda -- threeleaf false Solomon's seal = Smilacina trifolia (L.) Desf. Dominant in open bogs.

Streptopus amplexifolius (L.) DC. -- clasping-leaved twisted-stalk -- Widespread but nowhere abundant in all types of woodlands, both wet and dry, on slopes and the plateau.

ORCHIDACEAE (orchids)

Corallorrhiza trifida Chatelain -- yellow coralroot Scarce in mixed woods.

Listera cordata (L.) R. Br. ex Ait. f. -- heartleaf twayblade Rare, in mossy fir and spruce woods.

Platanthera orbiculata var. orbiculata (Pursh) Lindl. -- large roundleaved orchid = Habenaria orbiculata (Pursh) Torr. Rare in mossy mixed woods.

Spiranthes romanzoffiana Cham. -- hooded ladiestresses Rare, in open bogs and cutlines.

SALICACEAE (willows)

Populus balsamifera L. -- balsam poplar Dominant deciduous tree in moister depressions and on portions of some slopes. Widespread as individuals in different forst types

Populus tremuloides Michx. -- quaking aspen A leading tree species of deciduous and mixed woodlands, not as prevalent as birch.

Salix arbusculoides Anderss. (shrubby willow) -- Occasional in wetter areas in meadow complex.

Salix bebbiana Sarg. -- Bebb willow Occasional in the meadow complex and open woodlands

Salix discolor Muhl. -- pussy willow Uncommon, in mature woodlands, especially decidouous dominated.

Salix petiolaris Sm. -- meadow willow Rare along edges of slump wetlands. **Salix planifolia Pursh** -- diamondleaf willow Rare in stream/wetland complexes.

BETULACEAE (birches)

Alnus incana ssp. rugosa (Du Roi) Clausen -- speckled alder = Alnus tenuifolia Nutt.

Local in more extensive willow swamps and bog edges, occasionally becoming subdominant.

Alnus viridis var. crispa (Ait.) House -- American green alder = Alnus crispa (Ait.) Pursh Very local, most abundant in pine woods.

Betula glandulosa Michx. -- (bog birch) Rare, noted only in wetland near lake at southeast.

Betula neoalaskana Sargent -- (Alaska birch) Widespread tree species, occurring in a variety of woodlands and forming pure stands.

Betula pumila L. -- swamp birch Very local in open bogs where they meet with stream/wetland complexes.

URTICACEAE (nettles)

Urtica dioica L. -- stinging nettle Locally abundant in meadow complexes.

SANTALACEAE (sandalwoods)

Geocaulon lividum (Richards.) Fern. -- false toadflax Scarce, in dry coniferous woodland such as pine.

CARYOPHYLLACEAE (pinks)

Cerastium nutans Raf. -- nodding chickweed Scarce, in seepages in meadow complex at lower elevations.

RANUNCULACEAE (crowfoots)

- Actaea rubra (Ait.) Willd. -- red baneberry Fairly common in rich deciduous and mixed woods.
- Caltha natans Pallas ex Georgi -- floating marshmarigold Rare, noted in only one woodland pool at lower elevations.
- **Delphinium glaucum S. Wats.** -- Sierra larkspur Local in rich deciduous woodland and woodland edges and meadow complexes.
- Ranunculus abortivus L. -- littleleaf buttercup Occasional in damp open sites.
- Ranunculus gmelinii DC. -- Gmelin's buttercup Scarce in shallow water and on mud flats.
- Ranunculus lapponicus L. -- Lapland buttercup Scarce in wetter depressions in black spruce bogs.
- **Thalictrum sparsiflorum Turcz. ex Fisch. & C.A. Mey.** -- fewflower meadowrue Rare in moist deciduous woods.
- **Thalictrum venulosum Trel.** -- veiny meadowrue Fairly common herbaceous species of deciduous woodlands and meadow complexes.

FUMARIACEAE (fumitories)

Corydalis sempervirens (L.) Pers. (pink corydalis) -- scrambledeggs Occasional, in recently burned sites.

BRASSICACEAE (mustards)

- Arabis glabra (L.) Bernh. -- tower rockcress Scarce in disturbed sites.
- Cardamine pensylvanica Muhl. ex Willd. -- Pennsylvania bittercress Scarce in seepage areas in meadow complex on the north slopes.

SAXIFRAGACEAE (saxifrages)

- Chrysosplenium iowense Rydb. -- lowa golden saxifrage Very local along small quiet wooded streams and on rotting logs and mudflats in mixed woods and willow swamps.
- **Mitella nuda L.** -- naked miterwort Uncommon in herbaceous understories of coniferous and deciduous mixed woods.
- **Tiarella trifoliata L.** -- threeleaf foamflower Locally common in wet woodlands, especially seeps. **var. unifoliata** also occurs in the same habitat although it is not as common.

GROSSULARIACEAE (currants)

- Ribes glandulosum Grauer -- skunk currant Scare in coniferous mixedwoods.
- **Ribes hirtellum Michx**. -- wild gooseberry Fairly common in deciduous woods; scarce elsewhere.
- Ribes lacustre (Pers.) Poir. -- prickly currant Occasional in deciduous and coniferous mixedwoods.
- Ribes triste Pallas -- red currant Scarce in coniferous mixedwoods.

ROSACEAE (roses)

Amelanchier alnifolia (Nutt.) Nutt. ex M. Roemer -- Saskatoon serviceberry Occasional in drier coniferous mixedwood, deciduous and pine woodlands and in meadow complexes.

Comarum palustre L. -- purple marshlocks = Potentilla palustris (L.) Scop. Occasional in willow swamps and sedge marshes along streams and lakes and slump blocks.

Fragaria virginiana Duchesne -- Virginia strawberry Scarce in drier meadows.

Geum aleppicum Jacq. -- yellow avens Scarce in seepages in meadow complex.

Geum macrophyllum Willd. -- largeleaf avens Scarce in meadow complex.

Geum rivale L. -- purple avens Scarce, in moist meadows.

Potentilla rivalis Nutt. -- brook cinquefoil Scarce in disturbed areas along lower north slope.

Prunus pensylvanica L. f. -- pin cherry end of the park.

Scarce, in aspen woodland, primarily at the southern

Prunus virginiana L. -- common chokecherry Scarce in drier coniferous mixedwood and deciduous woodlands where soil is wel-drained.

Rosa acicularis Lindl. -- prickly rose Important understory species in a variety of deciduous and coniferous mixedwoods.

Rubus arcticus L. -- dwarf raspberry Scarce in moist black spruce woodlands and willow seepages.

Rubus chamaemorus L. -- cloudberry Dominant herbaceous species of black spruce woodlands and open bogs.

Rubus idaeus L. -- American red raspberry Occasional in a wide range of wooded and open habitats including aspen, mixed and birch woods, willow swamps, and mesic meadows along stream valleys.

Rubus parviflorus Nutt. -- thimbleberry Occasional in a variety of open woodlands and meadow complexes at higher elevations.

Rubus pedatus J.E. Smith -- dwarf bramble Dominant understory species in coniferous mixedwoods, deciduous woods and occasionally in pine.

Rubus pubescens Raf. -- dwarf red blackberry Locally important herbaceous species in a variety of deciduous and coniferous mixedwoods.

Sorbus scopulina Greene -- Greene mountainash Widespread in a variety of forest types but most common in coniferous mixedwoods.

FABACEAE (peas)

Lathyrus ochroleucus Hook. -- cream peavine Fairly common in deciduous woods and occasional in meadow complexes and coniferous mixedwoods.

Vicia americana Muhl. ex Willd. -- American vetch complexes. Rare in coniferous mixedwoods.

GERANIACEAE (geraniums)

Geranium bicknellii Britt. -- Bicknell's cranesbill Occasional in disturbed areas such as cutlines and the shore of Sturgeon Lake.

Geranium richardsonii Fisch. & Trautv. -- wild white geranium Scarce in deciduous woods, meadow complexes and coniferous mixedwoods

CALLITRICHACEAE (water starwort family)

Callitriche palustris L. -- vernal waterstarwort = Callitriche verna L. Uncommon in shallow water in ponds and temporary pools on cutlines.

EMPETRACEAE

Empetrum nigrum L. -- crowberry Scarce in open plateau coniferous woodlands.

BALSAMINACEAE (touch-me-not family)

Impatiens noli-tangere L. -- western touchmenot Rare at the edge of woodland pools on the lower north slopes.

VIOLACEAE (violets)

Viola palustris L. -- marsh violet Occasional along woodland pools and seepages on slopes.

ONAGRACEAE (evening-primroses)

- Circaea alpina L. -- small enchanter's nightshade Rare, but sometimes locally abundant, in damp shaded mossy woods and seepagaes on slopes.
- **Epilobium angustifolium L.** -- fireweed Widespread species in well-drained woodlands, both deciduous and coniferous mixedwoods; also occurs in meadow complex.
- **Epilobium ciliatum ssp. glandulosum (Lehm.) Hoch & Raven** -- glandular willowweed = **Epilobium glandulosum Lehm.** Scarce along edges of woodland pools on north slopes.

ARALIACEAE (ginsengs)

- **Aralia nudicaulis L.** -- wild sarsaparilla Dominant herbaceous species in deciduous woods; uncommon in coniferous-dominated sites and meadow complexes.
- **Oplopanax horridum (Sm.) Miq.** -- devil's-club Locally common on upper slopes in meadow complexes, deciduous woods and coniferous mixed woods.

APIACEAE (carrots)

- Heracleum maximum Bartr. -- common cowparsnip = Heracleum lanatum Michx.

 Occasional in coniferous mixedwoods, deciduous woods and meadow complexes.
- Osmorhiza depauperata Phil. -- bluntseed sweetroot Found only in pure white spruce stands.

CORNACEAE (dogwoods)

Cornus canadensis L. -- bunchberry dogwood Dominant herbaceous understory species in coniferous mixedwoods and pine woods; occasional in other woodlands.

PYROLACEAE (wintergreens)

- Moneses uniflora (L.) Gray -- single delight Scarce, in damp mossy coniferous woods, including black spruce plateau.
- Orthilia secunda (L.) House -- sidebells wintergreen Uncommon in coniferous mixedwoods and pine woods.
- **Pyrola elliptica Nutt.** -- white wintergreen Rare, though sometimes abundant, in deciduous and coniferous mixedwoods.

ERICACEAE (heaths)

Andromeda polifolia L. -- bog rosemary Dominant in open bogs.

Chamaedaphne calyculata (L.) Moench -- leatherleaf Dominant in open bogs.

Gaultheria hispidula (L.) Bigel -- creeping snowberry Dominant in moist black spruce woods.

Kalmia polifolia Wang. -- northern laurel Occasional in open bogs.

Ledum groenlandicum Oeder -- bog Labradortea dominant in open bogs and black spruce woodlands, also in coniferous mixedwoods and pine on the plateau.

Vaccinium cespitosum Michx. -- dwarf blueberry Uncommon in pine woods.

Vaccinium membranaceum Dougl. ex Hook. -- tall bilberry Important understory shrub in pine forest and coniferous mixedwoods.

Vaccinium myrtilloides Michx. -- velvetleaf huckleberry Dominant understorey shrub in pine forest and coniferous mixedwoods.

Vaccinium oxycoccos L. -- small cranberry Fairly common in open bogs.

Vaccinium vitis-idaea L. -- lingonberry Widespread but seldom abundant in coniferous-dominated woods. Occasionally dominant in pine.

PRIMULACEAE (primroses)

Trientalis borealis Raf.. -- northern starflower Widespread in a variety of woodlands but most prevalent in coniferous mixedwoods.

GENTIANACEAE (gentians)

Gentianella amarella (L.) Boerner -- autumn dwarfgentian Scarce in meadow complexes, especially where disturbed.

MENYANTHACEAE

Menyanthes trifoliata L. -- buck-bean Scarce, noted in only one open bog.

BORAGINACEAE (borages)

Mertensia paniculata (Ait.) G. Don -- tall bluebells Widespread understory plant in deciduous and coniferous mixedwoods.

SCROPHULARIACEAE (figworts)

Castilleja miniata Dougl. ex Hook. -- scarlet Indian paintbrush Local in open woodlands and slightly disturbed sites.

Melampyrum lineare Desr. -- narrowleaf cowwheat Occasional in pine woods. Pedicularis labradorica Wirsing -- Labrador lousewort Scarce in open bogs.

Rhinanthus minor L. -- yellow rattle Locally common on plateau cutlines and woodland openings on well-drained sites.

PLANTAGINACEAE (plantains)

Plantago major L. -- common plantain Occasional, introduced weed of disturbed sites.

RUBIACEAE (madders)

- **Galium boreale L.** -- northern bedstraw Occasional in meadow complex and deciduous woodlands, rare in coniferous mixedwoods.
- **Galium triflorum Michx.** -- fragrant bedstraw Occasional in deciduous woodlands, scarce in coniferous mixedwoods.

CAPRIFOLIACEAE (honeysuckles)

- **Linnaea borealis L.** -- twinflower Dominant species in coniferous mixedwoods; occasional in other woodlands.
- **Lonicera involucrata Banks ex Spreng.** -- twinberry honeysuckle Dominant understory shrub in deciduous woods; occasional in other forest types.
- **Sambucus racemosa L.** -- red elderberry Occasional in pine, meadow complexes and coniferous mixedwoods.
- **Symphoricarpos albus (L.) Blake** -- common snowberry Rare, noted only once in coniferous mixedwoods.
- Viburnum edule (Michx.) Raf. -- mooseberry viburnum Dominant understory species in deciduous woodlands and coniferous mixedwoods.

ADOXACEAE (moschatels)

Adoxa moschatellina L. -- muskroot Rare in seepages in meadow complexes and coniferous woods.

ASTERACEAE (composites)

- Achillea millefolium L. -- common yarrow Scarce in drier woodland and meadow complex habitats.
- Achillea sibirica Ledeb. -- Siberian yarrow Occasional in disturbed seepages and streamsides.
- Arnica cordifolia Hook. -- heartleaf arnica Occasional in coniferous mixedwoods and deciduous woods.
- Aster ciliolatus Lindl. -- Lindley's aster Common in deciduous woodland and drier meadow habitats.
- Aster conspicuus Lindl. -- showy aster Locally abundant in drier deciduous (aspen) woodlands.
- Aster puniceus L. -- purplestem aster Occasional in meadow complexes in seepages.
- Bidens cernua L. -- nodding beggartick Very local in seepages in meadow complexes.
- Hieracium albiflorum Hook. -- white hawkweed Occasional in pine woods.
- **Hieracium umbellatum L.** -- narrowleaf hawkweed Fairly common in coniferous mixed woods and deciduous woodlands. Also in drier areas in meadow complexes.
- **Petasites frigidus var. palmatus (Ait.) Cronq.** -- Arctic sweet coltsfoot = **Petasites palmatus**(Ait.) Gray Important understory species in deciduous and coniferous mixedwoods.
- Petasites sagittatus (Banks ex Pursh) Gray -- arrowleaf sweet coltsfoot Scarce in wet areas in meadow complexes.
- Senecio pauciflorus Pursh -- few-flowered ragwort Occasional in meadow complexes.
- Senecio triangularis Hook. -- brook ragwort Locally abundant in seepages and wet areas in woodlands, especially on the plateau.

- **Solidago canadensis L.** -- Canada goldenrod Rare in meadow complexes and coniferous mixedwoods.
- Taraxacum officinale G.H. Weber ex Wiggers -- common dandelion Weed of disturbed areas and meadow complexes.

Appendix 2. ANNOTATED LIST OF BIRDS

This list includes 60 species of birds that were recorded within the Grizzly Ridge study area during the 2000-2001 wildlife survey. A total of 43 species, marked with an asterisk (*), are known to have nested, or strongly suspected of having nested, in the study area during 2000.

Four categories have been used to indicate relative abundance. Specific rankings are based largely on frequency of observation in the breeding bird surveys. Breeding bird survey data is supplemented with random observation and sign; this is especially important for non-singing and transient species:

Common - widespread and numerous; more than 20 observations Fairly Common - 11-20 observations Uncommon - 6-10 observations Scarce - very localized or rare; 1-5 observations

Categories for seasonal status include the following:

Resident - non-migratory in the region; possible in all seasons but not necessarily recorded during the winter in this study

Summer Resident - migratory, occurring only during the breeding season

Migrant - occurring during migration and not nesting in the study area

Visitor - resident in the region but not breeding in the study area

Summer Visitor - summer resident in the region but not breeding in the study area

For species that are summer residents as well as migrants, unless specified, abundance applies to the nesting season. Some species become more abundant during migratory periods.

Common Loon (*Gavia immer***)** - scarce summer visitor. One flying and calling on June 26 over the southwestern portion of the study area. Possibly nests at small lakes just outside of the study area.

Mallard (*Anas platyrhynchos*) - scarce summer resident. Two on August 6 at an unnamed lake in the southeastern corner of the study area.

Baid Eagle (Haliaeetus leucocephalus) - migrant. One sub-adult flying over the study area on September 7.

Sharp-shinned Hawk (*Accipiter striatus*) - scarce migrant/summer resident; one adult observed flying through plateau coniferous-mixedwood, August 8.

Red-tailed Hawk (*Buteo jamaicensis*) - scarce summer visitor. One near the fire tower, June 27, soaring over slope coniferous-mixedwood.

American Kestrel (*Falco sparverius*) - scarce summer visitor. One flying low over the southwestern corner of the plateau, August 7.

*Ruffed Grouse (*Bonasa umbellus*) - uncommon resident in slope coniferous-mixedwood and meadow complex (birch-aspen-meadow) habitats.

*Spruce Grouse (Falcipennis canadensis) - uncommon resident in plateau coniferous-mixedwood (burn), plateau conifer-black spruce and coniferous-mixedwood on the edge of the plateau.

Sandhill Crane (Grus canadensis) - migrant. Flocks flying high over the study area in September.

*Solitary Sandpiper (*Tringa solitaria*) - scarce summer resident. An apparent nesting pair giving alarm calls in wet sedge habitat at a perched wetland in the east-central portion of the study area, June 26.

Great Gray Owl (*Strix nebulosa***)** - scarce visitor, possible resident. Recorded on the basis of a single feather found in an open bog (*Pinus-Andromeda-Chamaedaphne*), August 6.

- *Yellow-bellied Sapsucker (Sphyrapicus varius) scarce summer resident in slope meadow complex (birch-aspen-meadow) and plateau coniferous-mixedwood (aspen-spruce).
- *Hairy Woodpecker (*Picoides villosus*) scarce resident. One, August 7, giving alarm calls in slope deciduous aspen-birch (poplar dominated woods) at the edge of a large perched wetland in the southwestern portion of the study area.
- *Black-backed Woodpecker (*Picoides arcticus*) scarce resident. One female in plateau coniferous-mixedwood (burn), June 26.
- *Three-toed Woodpecker (*Picoides tridactylus*) fairly common resident in plateau and slope coniferous-mixedwood, plateau coniferous-mixedwood (burn), plateau conifer-pine and plateau conifer-black spruce (bog). Nests with young were found in plateau conifer-pine (burn) and plateau coniferous-mixedwood, June 26.
- *Northern Flicker (*Colaptes auratus*) scarce summer resident in slope coniferous-mixedwood, slope coniferous-mixedwood (burn) and plateau coniferous-mixedwood(white spruce-aspen-birch and pine-black spruce).

Pileated Woodpecker (*Dryocopus pileatus*) - scarce visitor-resident in older slope and plateau woodlands. Recorded on the basis of sign (feeding cavities), most of which appeared to be quite old. The only recent sign was in slope meadow complex, January 15.

- *Olive-sided Flycatcher (*Contopus cooperi*) scarce summer resident. One singing in slope mixedwood burn, June 26, and one migrant in plateau conifer-black spruce, September 6.
- *Alder Flycatcher (*Empidonax alnorum*) scarce summer resident in slope meadow complex habitats.
- *Least Flycatcher (*Empidonax minimus*) scarce summer resident. One singing in slope meadow complex (aspen-birch-alder-reed grass) habitat, June 26. On June 27, additional singing birds were recorded in lower slope aspen woods just outside of the study area where this species is more abundant. Within the study area, suitable habitat for this species, aspen woodland, is very restricted.
- *Blue-headed Vireo (Vireo solitarius) scarce summer resident in the following slope habitats:

coniferous-mixedwood (white spruce-birch-pine-meadow), deciduous-mixedwood (white spruce-birch-pine-meadow) and meadow complex (riparian poplar-alder-white spruce).

- *Warbling Vireo (*Vireo gilvus*) uncommon summer resident. Recorded mainly in slope meadow complex habitats, but also in slope deciduous mixedwood, slope deciduous birchaspen and plateau coniferous-mixedwood.
- *Red-eyed Vireo (Vireo olivaceus) scarce summer resident in slope deciduous birch-aspen (aspen) and plateau deciduous birch-aspen (small stand of aspen within coniferous-mixedwood).
- *Gray Jay (*Perisoreus canadensis*) uncommon resident. Recorded in coniferous-mixedwood habitats on the plateau and slopes, as well as plateau conifer-black spruce (dry and bog) and slope meadow complex habitats.
- **Black-billed Magpie** (*Pica pica*) scarce winter visitor. One in plateau coniferous-mixedwood (next to chopper clearing), January 15.
- *Common Raven (Corvus corax) fairly common resident. Recorded in plateau and slope coniferous-mixedwood, conifer-black spruce (dry, bog and burn) and meadow complex habitats.
- **Horned Lark (***Eremophila alpestris***)** scarce migrant-summer visitor. One in disturbed cut line habitat on the plateau, August 7-8.
- *Tree Swallow (*Tachycineta bicolor*) scarce summer visitor/summer resident. One flying low in slope meadow complex (riparian poplar-alder-white spruce) habitat, June 6.
- *Black-capped Chickadee (*Parus atricapillus*) scarce resident. Recorded in slope deciduous birch-aspen (aspen-birch-meadow and aspen) and slope coniferous-mixedwood during the breeding season, and plateau coniferous-mixedwood in fall and winter.
- *Boreal Chickadee (*Poecile hudsonica*) uncommon resident. In the breeding season, recorded in plateau coniferous-mixedwood (white spruce-birch) and slope meadow complex (riparian poplar-alder-white spruce) in the breeding season. Post-breeding records were in plateau conifer-black spruce (dry and bog), plateau deciduous birch-aspen (aspen), and slope and plateau coniferous-mixedwood.
- *Red-breasted Nuthatch (*Sitta canadensis*) fairly common resident. During the breeding season, recorded primarily in slope coniferous-mixedwood, but also in plateau coniferous-mixedwood and plateau conifer-black spruce (burn). Post-breeding, recorded also in plateau conifer-black spruce (bog).
- *Brown Creeper (*Certhia americana*) scarce resident in slope and plateau coniferous-mixedwood. Post-breeding, also recorded in slope meadow complex and plateau conifer-black spruce.
- *Winter Wren (*Troglodytes troglodytes*) scarce summer resident in coniferous-mixedwood-conifer, primarily on the slope.
- *Golden-crowned Kinglet (Regulus satrapa) fairly common resident. During the breeding

season, recorded primarily in slope and plateau coniferous-mixedwood, but also in slope meadow complex. Post-breeding, also recorded in plateau conifer-black spruce (open bog edge).

- *Ruby-crowned Kinglet (*Regulus calendula*) uncommon summer resident. Recorded mainly in plateau coniferous-mixedwood and plateau conifer-black spruce, but also in slope coniferous-mixedwood.
- *Swainson's Thrush (*Catharus ustulatus*) fairly common summer resident. Recorded mainly in slope coniferous-mixedwood, but also in plateau coniferous-mixedwood and, rarely, in slope meadow complex (alder-scattered birch/immature spruce).
- *American Robin (*Turdus migratorius*) scarce summer resident. Recorded in slope meadow complex (aspen-birch-meadow), coniferous-mixedwood (burn), plateau conifer-pine (burn) and plateau conifer-black spruce (bog).

American Pipit (Anthus rubescens) - migrant. One flying over the study area on September 6.

- *Cedar Waxwing (Bombycilla cedrorum) scarce summer resident in plateau coniferous-mixedwood and slope meadow complex (aspen-birch-meadow) habitat.
- *Tennessee Warbler (*Vermivora peregrina*) fairly common summer resident. Recorded mainly in slope meadow complex habitats, but also in plateau and slope coniferous-mixedwood.
- *Yellow Warbler (*Dendroica petechia*) scarce summer resident. One singing in slope deciduous birch/aspen, June 27. Limited suitable habitat (aspen-dominated woodland) exists in the study area. More abundant at lower elevations outside of the study area.
- *Magnolia Warbler (*Dendroica magnolia*) scarce summer resident. One singing in plateau coniferous-mixedwood (spruce-fir-birch) on the plateau edge.
- *Yellow-rumped Warbler (*Dendroica coronata*) common summer resident and the most abundant breeding bird in the study area. Occurs primarily in plateau and slope coniferous-mixedwood, but also recorded in slope meadow complex (including riparian poplar-alder-white spruce), plateau coniferous-mixedwood (burn), plateau conifer-pine burn, and plateau conifer-black spruce. The typical subspecies of the area is the Myrtle Warbler (*Dendroica coronata coronata*); however, an individual male with a Myrtle X Aububon's (*D. c. auduboni*) hybrid plumage feature was recorded.
- *Black-throated Green Warbler (*Dendroica virens*) scarce summer resident in slope coniferous-mixedwood (spruce-birch-scattered pine/fir) and slope meadow complex (birch-aspen-meadow) habitats.

Palm Warbler (*Dendroica palmarum*) - migrant. One in slope meadow complex (birch-reed grass) on September 7.

Blackpoll Warbler (*Dendroica striata*) - migrant. One in plateau conifer-black spruce on September 6.

- *American Redstart (Setophaga ruticilla) scarce summer resident in slope meadow complex and slope deciduous birch/aspen habitats.
- *Connecticut Warbler (*Oporornis agilis*) scarce summer resident. Four singing on single transect, in deciduous birch/aspen (aspen woods).
- *Mourning Warbler (*Oporornis philadelphia*) uncommon summer resident. Restricted mostly to slope habitats: meadow complex, deciduous birch/aspen and coniferous-mixedwood. Scarce in plateau coniferous-mixedwood (plateau edge spruce-fir-birch).
- *Common Yellowthroat (*Geothlypis trichas*) scarce summer resident in slope meadow complex and slope deciduous birch/aspen (aspen-birch-meadow) habitats.
- *Canada Warbler (*Wilsonia canadensis*) scarce summer resident in slope meadow complex and plateau coniferous-mixedwood habitats.
- *Chipping Sparrow (*Spizella passerina*) common summer resident. Occurs primarily in plateau and slope coniferous-mixedwood. Less frequent in slope meadow complex, slope deciduous birch/aspen, slope coniferous mixedwood, slope coniferous-mixedwood (burn), plateau conifer-pine (burn), plateau coniferous-mixedwood (burn), and plateau conifer-black spruce (dry and bog).
- *Lincoln's Sparrow (*Melospiza lincolnii*) scarce summer resident. One singing in the vicinity of springs in slope coniferous-mixedwood (burn) habitat.
- *White-throated Sparrow (*Zonotrichia albicollis*) uncommon summer resident. Found mainly in slope meadow complex habitats. Also occurs in slope deciduous birch/aspen, slope coniferous-mixedwood (burn) and plateau coniferous-mixedwood.
- *Dark-eyed Junco (Junco hyemalis) common summer resident, mainly in plateau coniferous-mixedwood and slope coniferous-mixedwood. Also recorded in plateau conifer-black spruce (dry, bog and burn) and plateau conifer-pine (burn). The typical subspecies of the area is the Slate-colored Junco (Junco hyemalis hyemalis); however, two individuals with Slate-colored X Oregon (J. h. oreganus) hybrid plumage features were recorded.
- **White-winged Crossbill (***Loxia leucoptera***)** scarce resident in slope coniferous-mixedwood in June and August. This species is irruptive, becoming abundant during years with more plentiful cone crops.
- **Common Redpoll (Carduelis flammea)** scarce winter visitor flying over slope meadow complex habitat.
- *Pine Siskin (*Carduelis pinus*) common summer resident. Most numerous in plateau and slope coniferous-mixedwood. Also recorded in plateau conifer-black spruce (dry bog and burn), plateau conifer-pine (burn), slope conferous-mixedwood (burn), slope deciduous-mixedwood and meadow complex habitats (including riparian poplar-alder-white spruce).
- **Evening Grosbeak (***Coccothraustes vespertinus***)** scarce resident in slope coniferous-mixedwood (mixedwood-meadow) and plateau deciduous birch/aspen (aspen).

*Rose-breasted Grosbeak (*Pheucticus Iudovicianus*) - scarce summer resident in slope coniferous-mixedwood (white spruce-birch-aspen), deciduous birch/aspen (aspen-birch-meadow) and meadow complex (aspen-birch-meadow-scattered spruce) habitat.

Appendix 3. ANNOTATED LIST OF AMPHIBIANS

Two species of amphibians were recorded in the study area where breeding habitat appeared to be very limited. Dry conditions during the spring of 2000 may have limited breeding potential in the area. During wetter years, more temporary water would be available for breeding habitat.

Striped (Northern) Chorus Frog (*Pseudacris tristeriata*) - a single record of 2 calling in a spring-fed pool in slope meadow complex habitat (poplar-aspen-reed grass-alder). Other standing shallow water slope habitats are potential breeding sites for this species.

Wood Frog (*Rana sylvatica*) - a single record of 2 small adults in a cut line pool on the plateau. A variety of standing water habitats in the study area are potential breeding sites for this species.

Appendix 4. ANNOTATED LIST OF MAMMALS

This list comprises 15 species recorded during the wildlife surveys.

Masked Shrew (*Sorex cinereus*) - one trapped in plateau coniferous-mixedwood. Expected to occur in other mature coniferous-mixedwood on the plateau and the slope.

Snowshoe Hare (*Lepus americanus*) - locally common in plateau and slope coniferous-mixedwood and plateau conifer-black spruce. Highest tracking densities were recorded in plateau conifer-black spruce. Also recorded in slope meadow complex habitat.

Red Squirrel (*Tamiasciurus hudsonicus*) - recorded in plateau and slope coniferous-mixedwood, plateau conifer-black spruce (dry and bog), deciduous birch/aspen and meadow complex habitat. Relatively scarce during the survey period, but locally common in plateau black spruce.

Deer Mouse (*Peromyscus maniculatus*) - three individuals trapped, in slope coniferous-mixedwood (white spruce-birch-meadow), deciduous birch/aspen and meadow complex habitat (reed grass-creek). Can be expected to occur in most mesic wooded habitats, including plateau coniferous-mixedwood.

Southern Red-backed Vole (*Clethrionomys gapperi***)** - the most abundant small mammal on trapping transects. A total of 8 were captured in plateau and slope coniferous-mixedwood and plateau conifer-black spruce.

Meadow Jumping Mouse (*Zappus hudsonius*) - 2 trapped in slope meadow complex (reed grass-creek) habitat. Expected to occur in similar lush meadow habitats on the slope.

Coyote (Canis latrans) - scarce. Recorded in disturbed cut line (within plateau conifer-black spruce) and slope conifer-mixedwood habitats.

Gray Wolf (Canis lupus) - apparently scarce. Recorded in plateau coniferous-mixedwood

(pine-black spruce-white spruce-scattered birch), and on a disturbed cut line in slope deciduous habitat.

Black Bear (*Ursus americanus***)** - relatively uncommon. Recorded in plateau coniferous-mixedwood (burn), slope deciduous, slope coniferous mixedwood and meadow complex habitat. An unusual record of recent tracks in snow, in slope coniferous-mixedwood, during the January tracking surveys.

Marten (*Martes americana*) - fairly common. Recorded in plateau and slope coniferous-mixedwood, conifer-black spruce, and meadow complex habitat.

[Fisher (*Martes pennanti*) -] - hypothetical. Large *Martes* scat, recorded in conifer-black spruce, may have been of this species. Fishers occur in the general region.

Canada Lynx (*Lynx canadensis*) - scarce. A single record of tracks in south slope meadow complex habitat during the winter tracking surveys.

Wapiti (*Cervus elaphus*) - locally common in winter in plateau and slope coniferous-mixedwood, conifer-black spruce and meadow complex habitat. Highest densities recorded in north slope coniferous-mixedwood. In summer, recorded sparingly in slope meadow complex habitat (birch-aspen-meadow) and plateau coniferous-mixedwood (including pine-fir).

Mule Deer (*Odocoileus hemionus***)** - relatively local and uncommon in the study area compared with White-tailed Deer. Observed sparingly in plateau coniferous-mixedwood along the edge of the plateau in June.

White-tailed Deer (*Odocoileus virginianus*) - more widespread in the study area than Mule Deer. Deer sign (apparently mostly of this species) locally abundant in winter in plateau and slope coniferous-mixedwood and slope meadow complex habitats.

Moose (Alces alces) - Common and widespread in the study area, occurring in all major habitats. In winter, the highest densities were recorded in plateau black spruce and plateau and slope mixedwood.

APPENDIX 5. WILDLIFE DATABASE RECORDS

The following is a sample printout of the wildlife database. The original database is in Access 97 format.

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2000 OE 28 625346 6118618 MEADOW COMPLEX (ASPEN-BIRCH-MEADOW)	OPE BIRCH-MEADOW-SC	ACK SPRUCE (WETLAND)		-	PEN-BIRCH-MEADOW-SC	SE (WET! AND)		DOD (BURN: B. SPRUCE-S	PEN-BIRCH-MEADOW)	PEN-BIRCH-MEADOW-SC		0 101000 0 140100 00	JOD (BURIN, B. STRUCKES)	JOD (SLOPE PINE-SPR-AS	PEN-ALDER)		-		6119708 CONIFEROUS-MIXEDWOOD (PLATEAU PIN-FIR-B	2000-06-28 622480 6114150 CONIFEROUS-MIXEDWOOD (SLOPE MIXEDWOOD-	2000-06-28 622480 6114150 CONIFEROUS-MIXEDWOOD (SLOPE MIXEDWOOD-		EN (SLOPE ASPEN)	OOD (SLOPE SPR-BIRCH-S		P	C C C C C C C C C C C C C C C C C C C		6110279 CONIFEROUS-MIXEUWOOD (W. SPHUCE-BIHCH-PI		2000-06-26 626231 6110288 MEADOW COMPLEX (HIPAHIAN POPLAH-ALDEH-W		1000	CONFER			-	-			₽. ×	PLAR-ASPEN-REED GRAS	2000-08-08 622068 6114443 CONIFER-BLACK SPRUCE	D (P! ATFAU PINE-SPRU				8	JS- MEADO							(PLATEAU SPRUCE-A		
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(PLATEAU CONIFER)	CHIPPING SPARROW	-		-	1	0			UNKNOWN	
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	CHIPPING SPARROW	- -		- ,	- 1				NA CONTRACTOR	3
OOD (SLOPE-BURN)	CHIPPING SPARROW	-		-	0				ONKNOWN	And all the state of the state
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CHOOL SEBILICE CIP BIOCH	CHIDDING SPARBOW	-					000		UNKNOWN	
	WOODD SPADOW	-		-	-			T	NWONNIN	OFF CR4
JOS-INITACIONOCO (W. STROCE-BIROTI-TI CI	WOULD STANFOOM	- 0					1_	T	INIKNIOWN	
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en (SLOPE ASPEN)	CHIPPING SPARROW	7			0 0				NA CHARLE	
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OPE BIRCH-MEADOW-SC	IPPING SPARROW	0 1						,	NA CHANGINA	OTT #10
SP-BIRCH-ALDER-REED G	CHIPPING SPARROW		0		2			5	NANONAN	011111111111111111111111111111111111111
6099341 CONIFER-BLACK SPRUCE (WETLAND)	COMMON LOON	0	0	-	0	0			ONKNOWN	FLYING OVER V6 CALLING
2000-06-28 625229 6117056 CONIFER-BLACK SPRUCE (BURN) CC	COMMON RAVEN	0	0	-	1 0	0	000	0 CALL U	UNKNOWN	
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E (WETLAND)	COMMON BAVEN	0	0	2	2 0	0	0 0	0 CALL U	UNKNOWN	AT EDGE
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12	WMON BAVEN	0	0	-	1	0		O CALL U	UNKNOWN	OFF CA2
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CIN (ASI EN-BINGI FINESE	COMMON VELLOWTHBOAT	-							NAKONAMI	
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OFE BINCH-IMEADOW-SO	COMMISSION I ELECTRONIC ED	7 7				1			INIKNIOWANI	WET 59 ASPEN WINE V SCATTERED POPI
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FEATHER NEAR V4	UNKNOWN	0 SIGN	0	0	=======================================	-	0		REAT GRAY OWL)A-CHAMAEDAPHNE) G	6104216 OPEN BOG (PINUS-ADROMEDA-CHAMAEDAPHNE) GREAT GRAY OWL		_	PANOO
CA7. MORE BLACK SPHUCE THAN WHITE		0 SIGN	0	0	_	-	0		GRAY WOLF	PINE-B/ W SPRUCE-S G	6113802 CONIFEROUS-MIXEDWOOD (PINE-B/ W SPRUCE-S			ANOO
ON WSA		0.01HEH	0	0	2 2	N	0		HAY JAY	DECIDMEADOW, U G	6119139 MEADOW COMPLEX (MIXED DECIDMEADOW, U GRAY JAY	625980 6119139 N	2001-01-15 625	PANOO
Addition to the state of the st	1	2 CALL	0	0	2 0	2	0	-	RAY JAY	W. SPRUCE-BIRCH-PI G	6110279 CONIFEROUS-MIXEDWOOD (W. SPRUCE-BIRCH-PI GRAY JAY	626025 6110279 C		CR4
	CNKNOWN	1 CALL	1-	0	0	1	0		GRAY JAY	SLOPE) G	6114164 CONIFEROUS-MIXEDWOOD (SLOPE)	623661 6114164 C	2000-06-28 623	CA9
PINE-SPRUCE-BIRCH-ASPER-GRASS MUND		0.CALL	0	0	-	-	0		HAY JAY	SLOPE MIXEDWOOD- G	6114150 CONIFEROUS-MIXEDWOOD (SLOPE MIXEDWOOD- GRAY JAY	622480 6114150 C	2000-06-28 622	CA6
ON W6		0 OTHER	0	0	3	ω	0		GRAY JAY		6119692 CONIFEROUS-MIXEDWOOD (SLOPE MIXED CONIF	625342 6119692 C		NOO
OFF CH31. BLACK SPHUCE-SCATTERED PT	1	OOTHER	0	0		_	0		GRAY JAY	CONIFER)	6118803 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)			OONAF
		1 CALL	0	0	1	-	0		GRAY JAY		6120086 CONIFEROUS-MIXEDWOOD (PLATEAU)		_	CR25
	UNKNOWN	0 OTHER	0	0	1 0	===	0		GRAY JAY	AND)	6109515 CONIFER-BLACK SPRUCE (WETLAND)	627602 6109515 C		H
	UNKNOWN	2 CALL	0	0	2 0	N	0		GRAY JAY		6110050 CONIFER-BLACK SPRUCE (DRY)			CR6
CNM		2 CALL		0	2 0	2	0		GRAY JAY	ס	6119427 CONIFER-BLACK SPRUCE (AT EDGE OF SEDGE		2000-09-06 625927	ANOO
	1	1 CALL	0	0	1 0	-	0		GRAY JAY	LATEAU) G	6108142 CONIFER- BLACK SPRUCE (PLATEAU)	622974 6108142 C	2000-06-26 622	CR11
	CINKINOWN	OCALL	0	0	_	-		KINGLET	OLDEN-CROWNED	N POPLAR-ALDER-W G	6110288 MEADOW COMPLEX (RIPARIAN POPLAR-ALDER-W GOLDEN-CROWNED KINGLET	626231 6110288 N	2000-06-26 626	CA2
	UNKNOWN	OCALL	0	0		_		KINGLET	GOLDEN-CROWNED KINGLET	WHITE SPRUCE-BIRC G	6119926 CONIFEROUS-MIXEDWOOD (WHITE SPRUCE-BIRC	626272 6119926 C	2000-09-07 626	RANOO
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	UNKNOWN	0 CALL	0	0	1	_	0	KINGLET	GOLDEN-CROWNED KINGLET	(SPRUCE-FIR-BIRCH) G	CONIFEROUS-MIXEDWOOD (CR10
	UNKNOWN	0 CALL	0 0	0	N N	N		KINGLET	OLDEN-CROWNED	SP-PINE-ASPEN-MEA G	6120478 CONIFEROUS-MIXEDWOOD (SP-PINE-ASPEN-MEA GOLDEN-CROWNED KINGLET	630286 6120478 C	2000-06-28 630	H24
OFF CR7	UNKNOWN	0 CALL	0	0	_	_	0	KINGLET	GOI DEN-CROWNED KINGLET	SP-RIBCH-ASPEN-SC G	S109854 CONIEEROI IS-MIXEDWOOD (SP-BIRCH-ASPEN-SC			AIL
	UNKNOWN	0 SONG	0	0	_	0	0	KINGLET	DEN-CROWNED	MEAD-EIR/PI	6114164 CONIEEBOIIS MIXEDWOOD (SP.ASP		-	A A
	UNKNOWN	OSONG	0 0	0	<u>-</u>	0 -	2 0	KINGI ET	GOLDEN-CHOWNED KINGLET	W. SPHOC	CONIFEROUS-MIXEDWOOD	- 5	-	CR19
	UNKNOWN	0 CALL	0 0	0			0 0	KINGLET	GOLDEN-CHOWNED KINGLET		6115106 CONIFEROUS-MIXEDWOOD (PLATEAU SPRUCE-A		_	RANOO
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	MACANAMI	O CALL	0 0	0 0		, _	0	KINGLET	GOLDEN-CROWNED KINGLET	i.	6119306 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	628676 6119306 C	2000-06-28 628	CR29
OFF CH31. BUACK SPROCE-SCATTERED F	ONKNOWN	OSONG	0	0		0	0	KINGLET	GOLDEN-CROWNED KINGLET		CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	-	2000-06-28 628005	NOO
OFF CA7		0 SONG	0	0	_	0	1 0	KINGLET	GOLDEN-CROWNED KINGLET	INE-B/W SPRUCE-S G	6113802 CONIFEROUS-MIXEDWOOD (PINE-B/ W SPRUCE-S	_	2000-06-28 622934	RANOO
ON M6	1	1 CALL	0	0	0	_	0		GOLDEN-CROWNED KINGLET		CONIFER-BLACK SPRUCE (AT EDGE OF OPEN BO	6119575	_	ANOO
FLYING OVER B8		2 FLY	0	0	2 0	2	0		EVENING GROSBEAK		DECIDUOUS-BIRCH/ASPEN (PLATEAU ASPEN)			ANOO
	í	0 CALL	0	0	3	ဒ	0		EVENING GROSBEAK		6114150 CONIFEROUS-MIXEDWOOD (SLOPE MIXEDWOOD-		-	246
CAPTURED ALONG CREEK. 8X2 TRAPS. 1	UNKNOWN	0 OTHER	1 0	0	<u>-</u>	_	0		DEER MOUSE	CREEK)	6120423 MEADOW COMPLEX (REED GRASS-CREEK)			4 6
	UNKNOWN	0 OTHER	0	0	_	_			DEER MOUSE	0	6113972 DECIDI IOLIS BIBCH/ASPEN (SLOPE)		2000-08-08 622062	2 0
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	į.	0 SONG	0	0	_ (0	0 -		DARK-FYED JUNCO	N SPRINGE RIBOH-PID	6108468 CONIFEROUS-MIXEDWOOD (SF-FIR-BIRCH, F.C.) DARK-FYED JUNGO			ANOO
OFF CR10. FAMILY GROUP.		OOTHER	- 0	0	ω -		<u> </u>		DARK EYED JUNCO		6109654 CONIFEROUS-MIXEDWOOD			ANOO
OFF CB7	LINKNOWN	O SONG	0 0	0 0		0 0			DARK-EYED JUNCO	3	6110140 CONIFEROUS-MIXEDWOOD (SLOPE-BURN)		2000-06-26 628035	CA1
	NACONNO	O SONG	0 0	0		0	0		DARK-EYED JUNCO		6114164 CONIFEROUS-MIXEDWOOD (SLOPE)	+	2000-06-28 623661	CA9
	NKNOWN	OSONG	0	0		0	1 0		DARK-EYED JUNCO		6120194 CONIFEROUS-MIXEDWOOD (SLOPE)	629301 6120194 C	2000-06-28 629	CR28
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- Control of the cont	UNKNOWN	0 SONG	0 0	0		0	0 0		DARK-EYED JUNCO	(PI ATEAU MIXEDWO D	6115//6 CONFEEROUS-MIXEDWOOD (PI ATEAL) MIXEDWO DARK-EYED JUNCO	4 -		A11
more white than black sonice	NWONNI	O SONG	0 0	o c		0		-	DARK-EYED JUNCO	OINE-SPR-ASPEN-SC D	6113802 CONIFEROUS-MIXEDWOOD (PINE-SPR-ASPEN-SC			CA7
MORE BLACK SERVICE THAN WHITE	1	ONONG	0	0	3	0	0 0		DARK-EYED JUNCO		6110065 CONIFEROUS-MIXEDWOOD (627819 6110065.C	2000-06-26 627	CR2
WP1 50. STIE #62. BLACK SPHUCE-SPHAG	UNKNOWN	O SONG	0	0	_	0	1 0		DARK-EYED JUNCO		6120086 CONIFEROUS-MIXEDWOOD	630314 6120086 C	2000-06-28 630	CH25
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SITE #32	UNKNOWN	0 SONG	0	0	2 2	0	2 0		DARK-EYED JUNCO		6110632 CONIFER-PINE (BURN)		2000-06-26 627	CR3
	UNKNOWN	0 CALL	0	0	2 2	N	0 0		DARK-EYED JUNCO	;	6109515 CONIFER-BLACK SPRUCE (WETLAND)	627602 6109515 C	2000-06-26 627	CR1
	UNKNOWN	0 SONG	0	0	1	0	. 1		DARK-EYED JUNCO		6118803 CONIFER-BLACK SPRUCE (PLATEAU CONIFER)			CR31 .
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	NWONN				1	0	1 0		DARK-EYED JUNCO		6114349:CONIFER-BLACK SPRUCE (PLATEAU B SP-FIR/PIN	623475, 6114349°C	2000-06-28 623	CA8
	101000000000000000000000000000000000000	TNGUNNBERAVIO	TING		CONTROL	Chairman .			Amino in	-				į

UNKNOWN WIDELY SCATTERED SPRUCE AND POPLAR	UNKNOWN	0 SONG	0	0	-	0	0	_	ICH-MEAD MOURNING WARBLER		624400	HIG
MORE DECIDUOUS COMPONENT THAN CR4	UNKNOWN	0 SONG	0	0	-: -:	0	0	-	E-BIRCH-PI MOURNING WARBLER	6110153 CONIFEROUS-MIXEDWOOD (W. SPRUCE-BIRCH-PI MOURNING WARBLER	2000-06-26 625626 6	O H
		0 SONG	0	0	-:-	0,0	0		FIB-BIRCH) MOLIBNING WARRIER		624539	ANOO
OFF CR7		0 SONG	0 0	0 0	- 14	o 1	0 0	٠ (د	ASSEN SC MOUSE	6119139 MEADOW COMPLEX (MIXED	625980	V3A
,	UNKNOWN	4 SIGN	0	0	0 0	1,4	-	0 0	S- MEADO MOOSE	7	625980	NSA
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	UNKNOWN	1 SIGN	o c	2 0	0 0	-		0 0	NORTH SL MOOSE		625342	V6
CAR		1 OIGN	T	0	-	-		0 0	ADOW) MOOSE		625797	RANDO
CAA		1 0 0 0		0		-			SC		2000-06-27 624734 6	ANOO
CR16. ON CUTLINE		o SiGN	1	0 0	-1-					-	620741	DONA
CR14		OSIGN		0 0		. -					622072	OONAF
OFF B8		0 SIGN		0	4 -			0 0	S		622195	ANOO
		0 SIGN		0					E-BIACH-FI MOOSE		625626	ANOO
CR5. ALSO BEDS.	- 1	0 SIGN		0	<u>.</u>				in BinCh Pi MOOSE	-1	626025	ANOO
CR4	- 1	0 SIGN		0	-	4		0 0	E BIBCH DI MOOGE		623012	ANOO
CR10	- 1	0 SIGN		0	4	4 -		2 0	EAC-PRAT MOOSE		624950	ANOO
CA12	UNKNOWN	0 SIGN		0	-	-		0	AD EIB/BI MOOSE		023001	ANOU
CA9	UNKNOWN	0 SIGN	0	0	1	-		0	B-ASP-PIN MOOSE	_	0000001	ANDO
CA6	UNKNOWN	0 SIGN	0	0	_	_		0	_		000000	
OFF CR19	UNKNOWN	0 SIGN	0	0				0			605533	
CA10	UNKNOWN	0 SIGN	0	0	1	_	0	0	- 1		623787	DANOO
UNKNOWN CR31. BLACK SPRUCE-SCATTERED PINE/BI	UNKNOWN	0 SIGN	0	0	1	_	0	0	CONIFER) MOOSE	6118803 CONIFEROUS-MIXEDWOOD	628005	ANOO
CA8	UNKNOWN	0 SIGN	0	0	_	_	0	0	B SP-SC. FI MOOSE		623475	DANOO
UNKNOWN CA11; more white than black spruce	UNKNOWN	0 SIGN	0	0	_	_	0	0	JCE-FIR-BI MOOSE	6115776 CONIFEROUS-MIXEDWOOD (PINE-SPRUCE-FIR-BI MOOSE	624320	OONAF
CA7. MORE BLACK SPHUCE THAN WHITE.	UNKNOWN	0 SIGN	0	0		_	0	0	SPRUCE-S MOOSE		622934	ANOO
		1 SIGN	0	0	0	_	0	0	OPE MIXE MOOSE	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE MOOSE	2001-01-15 625936 6	V8
	UNKNOWN	3 SIGN		0	3	ω	0	0	OPE MIXE MOOSE	6120255 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	625789	٧7
	UNKNOWN	7 SIGN		0	7 0	7	0	0	OPE MIXE MOOSE		2001-01-15 625936 6	V8
CR2		OSIGN	0	0	-	_	0	0	SPRUCE-S MOOSE		2000-06-26 627819 6	OONAF
	1	1 SIGN		0	0	_		0	MOOSE	6119347 CONIFEROUS-MIXEDWOOD	625859	-
	UNKNOWN	8 SIGN	0	0	0	00		0	MOOSE	6119347 CONIFEROUS-MIXEDWOOD	2001-01-15 625859 6	V2
	CNRNOWN	SIGN		0	0	_	Г	0	MOOSE	625859 6119347 CONIFEROUS-MIXEDWOOD	2001-01-15 625859 6	N2
CHa	-1	OSIGN		c	-		Г	0	MOOSE	6110637 CONIFER-PINE (BURN)	2000-06-26 627365 6	OONAF
	1	OSIGN		0	1	_		0	MOOSE	6109805 CONIFER-BLACK SPRUCE (WETLAND)	627556	RANOO
		OSIGN		c	1	_		0	MOOSE	6099283 CONIFER-BLACK SPRUCE (WETLAND)	2000-08-07 618977 6	OONAF
MOOGE		o SIGN		c		_		0	MOOSE	6119700 CONIFER-BLACK SPRUCE	2000-09-06 625959 6	PANOO
MOOSE TRAIL		1 SIGN		0	0	_		0	MOOSE	6119741 CONIFER-BLACK SPRUCE (PLATEAU)	2000-09-06 625976 6	RANOO
OFF CHE. ALSO I HAILS.		OSIGN		0	-	_		0	MOOSE	6110050 CONIFER-BLACK SPRUCE	2000-06-26 625340 6	ANOO
CNA		OSIGN		0	-	_		0	SEDGE P MOOSE	6119427 CONIFER-BLACK SPRUCE (AT EDGE OF SEDGE	2000-09-06 625927 6	RANOO
ON MA		OSIGN		0	-	_		0	OPEN BO MOOSE	6119575 CONIFER-BLACK SPRUCE	2000-09-06 626046 6	ANOO
		OIGN		c				C	MOOSE		2001-01-15 625980 6	_
	CINKINOWALA	A CIGIN		0	0 0	. 10		0	MOOSE		2001-01-15 625980 6	_
	CINKINOWIN	o o o o		c	0	G	T	0	MOOSE		2001-01-15 625980 6	3
CHZO		OSIGN		0) -	4=		0	MOOSE	6119435 CONIFER- BLACK SPRUCE (PLATEAU)	2000-06-27 625915 6	ANOO
CAPTORED IN MEADOW		מפודות		0	N N	N		0		-	-	19
CART IRED IN MEADOW	- 1	OTLED		0) -	-			IFER) MASKED SHHEW		2000-08-08 622047 6	-
	CMCMCMM	COTHED	T	0 0		N		0	JS- MEADO MARTEN			N3B
	CINKINOWIN	- SIGN		0	0	_		0	IS- MEADO MARTEN		2001-01-15 626151 6	N3B
	CIANONNI	1 OIGN	1	0	÷ +	4		0 0			625342	-
CRIC. ON COLLINE.	- 1	20014	-	0	-	. -					2000-06-27 624734 6	ANOO
CRIS ON CUTUME		O O O O		0					XED CONIT MARTEN		625300	ANOO
	CINKINOWIN	- SIGN		0		1		0	CONIFER) MARIEN		2001-01-15 625800 6	V4
	CINKNOWN	4 CICN		0 0	0 0			0	1		2001-01-15 625859 6	2
	ONKNOWN	N O O O		0	0 0	N		0	MARTEN		2001-01-15 625859 6	N2
CH6. VEHY DARGE, PUSSIBLY FISHER SCA		OSIGN	-	0	, _	-		0	MARTEN		2000-06-26 625340 6	ANOO
		3 SIGN	1	0	3 0	ω		0	MARTEN	6119764 CONIFER-BLACK SPRUCE	2001-01-15 625980 6	2
	UNKNOWN	1 SIGN	0	0	1 0	1		0	MARTEN	1 1- 114	625980	
V1. UNNAMED LAKE.	UNKNOWN	MIMS 0	0 0	0	2 2	2	0	0	MALLARD	6104075 LAKE	2000-08-06 624298 6	RANOO

			The Control of	-		-		-	אבט פעטוחחבר		2000-06-28 630341	CH23
	- 1	OCALL	0 0	0	-		0	0	RED SQUIRREL	(SLOPE PINE-SPRBI	2000-06-28 622108	RAN00
CAS	L		-		-	-	C	C	RED SQUIRREL		2000-06-28 624320	RANOO
A11: more white than black spruce	CAKNOWN		1		0	_	0		RED SQUIRREL	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	2001-01-15 625936	W8
	CINKNOWN	-	1		0	2	0		RED SQUIRREL	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	2001-01-15 625936	W8
2.8		Ï	0		-	4-	0	-	RED SQUIRREL	6104080 CONIFER-PINE (PINE-BLUEBERRY)	2000-08-06 624240	RANOO
		בוי	0	-	_	-	0	0	RED SQUIRREL	6 6109805 CONIFER-BLACK SPRUCE (WETLAND)	2000-06-26 627556	RANOO
MICCEN		3	1		0	-	0	0	RED SQUIRREL	9 6119700 CONIFER-BLACK SPRUCE (PLATEAU)	2000-09-06 625959	RAN00
MICCEN	1	1 SIGN	0	0	0	-	0	0	RED SQUIRREL	6119741 CONIFER-BLACK SPRUCE (PLATEAU)	2000-09-06 625976	RAN00
ON MY		1 CALL	0		0	-	0	0	RED SQUIRREL	6119427 CONIFER-BLACK SPRUCE (AT EDGE OF SEDGE P		RANOO
ON M6	1	0 CALL	0	0	2	2	0	0	RED SQUIRREL	6119575 CONIFER-BLACK SPRUCE (AT EDGE OF OPEN BO		RAN00
	1	1 SIGN	0	0	0	-	0	0	RED SQUIRREL	6119764 CONIFER-BLACK SPRUCE		<u> </u>
	UNKNOWN	ļ	0	0	0	7 7	0	0	RED SQUIRREL	6119764 CONIFER-BLACK SPRUCE	2001-01-15 625980	<u> </u>
	UNKNOWN		0		0	4	0		RED SQUIRREL	6119764 CONIFER-BLACK SPRUCE		¥
	CNKNOWN	0 FLY	0	0	6	6	0		PINE SISKIN	6108787 MEADOW COMPLEX (W SP-BIRCH-ALDER-REED G	2000-06-26 623637	CR9
OFF CHZ!		OCALL	0	0	_	-	0	0	PINE SISKIN	6120460 MEADOW COMPLEX (SLOPE BIRCH-ASPEN-MEAD	2000-06-27 625825	RANOO
		0 CALL	0		2	N	0	0	SINE SISKIN	6110288 MEADOW COMPLEX (RIPARIAN POPLAR-ALDER-W PINE SISKIN	2000-06-26 626231	CA2
	ONKNOWN	0 FLY	0		_	_	0		DINE SISKIN		2000-06-26 624490	CA3
A CALL THE REAL PROPERTY AND A CALL THE REAL	UNKNOWN	0 CALL	0	0	Ŋ	2	0	0	PINE SISKIN			CR5
	UNKNOWN	0 FLY	0		2	N	0	0	DINE SISKIN	6110279 CONIFEROUS-MIXEDWOOD (W. SPRUCE-BIRCH-PI PINE SISKIN	2000-06-26 626025	CR4
	UNKNOWN	FLY	0	0	4	4	0	0	INE SISKIN			CR7
	UNKNOWN	0 CALL	0	0	2	N	0	0	PINE SISKIN	6120478 CONIFEROUS-MIXEDWOOD (SP-PINE-ASPEN-MEA		CR24
	UNKNOWN	0:CALL	0	0	-	_	0	0	PINE SISKIN	6116420 CONIFEROUS-MIXEDWOOD (SP-ASP-MEAD-FIR/PI		CA12
	UNKNOWN	0.CALL	0	0	_	_	0	0	PINE SISKIN	6110140 CONIFEROUS-MIXEDWOOD (SLOPE-BURN)		CAI
	UNKNOWN	0 CALL	0	0	_	_	0	0	PINE SISKIN	6120194 CONIFEROUS-MIXEDWOOD (SLOPE)	-	CR28
April and the second se	UNKNOWN	40 CALL	0	0	0	40 40			PINE SISKIN	6114700 CONIFEROUS-MIXEDWOOD (SLOPE)		BANOO
	UNKNOWN	0 CALL	0	0	-	_	0		PINE SISKIN	6120410 CONIFEROUS-MIXEDWOOD (SLOPE SPR-PINE-AS	2000-06-28 630341	CROS
		'	0		6	10			PINE SISKIN	611462/ CONIFEROUS-MIXEDWOOD (SLOPE SPR-BIRCH-S	2000-06-28 622108	HANOU
OFF CA5			0 0		_ (_ (DINE GIOXIN	6114150 CONIFEROUS-MIXEDWOOD (SLOPE MIXEDWOOD-		CA6
	UNKNOWN	CALL	0 0	> 0	ـ د	ە د د	0	-	TIME	6119384 CONIFEROUS-MIXEDWOOD (PLATEAU W. SPRUC	2000-06-27 625499	CR19
	UNKNOWN	O SONG			- -	-	0	- 0	PINESISKIN	6119384 CONIFEROUS-MIXEDWOOD (PLATEAU W. SPRUC		
	CNKNOWN	CALL	0 0			_	0		PINE SISKIN	6114874 CONIFEROUS-MIXEDWOOD (PLATEAU MIXEDWO	2000-06-28 623787	CA10
	UNKNOWN	O FLY	0		2	2	0	T	PINE SISKIN	6119679 CONIFEROUS-MIXEDWOOD (PLATEAU MIXEDWO	2000-06-28 629572	CR26
	UNKNOWN	0 CALL	0		_	_	0		PINE SISKIN		2000-06-28 628676	CR29
OFF CA8		0 CALL	0	0	ω	3	0	0	NE SISKIN	6114349 CONIFEROUS-MIXEDWOOD (PLATEAU B SP-SC. FI PINE SISKIN	2000-06-28 623475	RAN00
more white than black spruce		0 CALL	0		-	_	0		PINE SISKIN	6115776 CONIFEROUS-MIXEDWOOD (PINE-SPR-FIR-BIRCH		-
		0 CALL	0	0	ω	3	0	0	PINE SISKIN	6110065 CONIFEROUS-MIXEDWOOD (BURN; B. SPRUCE-S	2000-06-26 627819	
The state of the s	UNKNOWN	0:CALL	0	0	_		0	0	PINE SISKIN	6119425 CONIFEROUS-MIXEDWOOD		ω .
	UNKNOWN	0 FLY	0 0	0	Ŋ	N	0		PINE SISKIN	6110632 CONIFER-PINE (BURN)		+
AT EDGE		30	0	0	N	2	0		PINE SISKIN	6109515 CONIFER-BLACK SPRUCE (WETLAND)		2 2
	UNKNOWN	0 CALL	0		2	2	0		PINE SISKIN	6118803 CONIFER-BLACK SPRUCE (PLATEAU CONIFER)		-
		0 CALL	0 0		N	N 0	0 0		PINE SISKIN	61135/5 CONFER-BLACK SPRUCE (ALEDGE OF OPEN BO	2000-09-06 626046	0
ON M6		3 CALL	0		٥.	ω .	0 0		DINIT CICKIN	STACE TO CONTENT DE LACK SERVICE (AT EDGE OF OBEN BO		
	_	0 CALL	0		_ -	_	0 9		DINE SISKIN	6118979 MEADOW COMPLEX (MIX. DECIDOOCS- MEADOW,		
ON W3B. RECENT FEEDING HOLES.	1	OSIGN	0 0		٠.	_	0 0		PII FATED WOODPECKER	6118979 MEADOW COMPLEX (BINCH-NEED GRASS)		
300	_	OCAL	0 0	0			0 0	o -	OCIVE-SIDED FLYCATCHER	6110140 CONIFEROUS-MIXEUWOOD (MIXED PINE-BIRCH-A	-	
OFF CA1	ONKOWN	OCALL		0 0			0	0	OLIVE-SIDED FLYCATCHER			
IN V4: PINUS CONTORTA-ANDROMEDA-CH	. 1	OSIGN	0		. 0	0	0	-	OT ENTERED	6104216 OPEN BOG (P. CONTORTA-ANDROMEDA-CHAMAE	2000-08-06 621061	B3
	12	1 CALL	0		0	-	0		JORTHERN FLICKER		2000-09-06 625738	RANOO
	UNKNOWN	0.OTHER	0		-	-	0	0	NORTHERN FLICKER	par 11.70		
CALLING IN WETLAND EDGE WOODS		0 CALL	0	0	-	_	0	0	NORTHERN FLICKER			8
		0 SONG	0	0	-	0	0	_	MOURNING WARBLER	6119517 MEADOW COMPLEX (BIRCH-ASPEN-MEADOW-SC		-
			0		-	_	0	4	MOURNING WARBLER	6119485 MEADOW COMPLEX (ASPEN-BIRCH-MEADOW-SC	1	
HEAVILY BROWSED ELDER			0		-	-	0	_	MOURNING WARBLER	6108150 MEADOW COMPLEX (ASPEN-BIRCH-ALDER-MEAD		CR13
A THE COLUMN TWO IS NOT THE COLUMN TWO IS NO	UNKNOWN	0 SONG	- 11	0 0	- -		0 0		MOUBNING WARBLER	6119350 DECIDIOUS BIRCH/ASPEN (ASPEN-BIRCH-MEAD	2000-06-27 624200	
	UNKNOWN	1 0 0 1 1 0 0 0 0 SONG	0	0	-	1	0	1	WARRI ER	6110350 DECIDI IOI IS BIDCH/ASDENI /ASDENI BIDCH MEAD	- 12	C
	֡					-		The second				

10x2 TRAPS	UNKNOWN	0 OTHER	0	0	0	_	→	0	0	OVO	SOUTHERN RED-BACKED VO	so	OG FOREST)	BOG FORE	SPRUCE	6119751 CONIFER-BLACK SPRUCE (BOG FOREST	6119751 C		
	UNKNOWN	0 OTHER	0	0	0	2	0	. ,	-1	-	SOLITARY SANDPIPER		OF SLOPE)	SE OF SLOPE	SE AT BASI	6110375 WETLAND (SEDGE AT BASE OF SLOPE)	6110375 W	2000-06-26 627450	PANDO 2
	UNKNOWN	4 SIGN	0	0	0	0	4	0	0		SNOWSHOE HARE		DECIDUOUS- M	ED DECIDUO	EX (MIXE)	6119139 MEADOW COMPLEX (MIXED DECIDUOUS: MEADO	6119139 M		
	UNKNOWN	4 SIGN	0	0	0	0	4 1	0 0	0		SNOWSHOE HARE		DECIDIOUS- M		LEX (MIXE)	6118979 MEADOW COMPLEX (MIXED DECIDIOUS: MEADO	6118979 M	-	
	UNKNOWN	2 SIGN	0 0	0 0	0 0	0 0	٠ -	2 0	0		SNOWSHOE HARE		DECIDOOS- M	ED DECIDOO	LEX (MIXE	61189/9 MEADOW COMPLEX (MIXED DECIDOOUS: MEADO	61189/9 M		-
	UNKNOWN	SIGN	0 0	2 0	0 0	010		2 0	0	.1	SNOWSHOE HAHE		DECIDUOUS- M	ED DECIDUO	LEX (MIXE	6119139 MEADOW COMPLEX (MIXED DECIDUOUS- MEADO			-
	DINKNOWN	O O O O	0	,	0 0	0	C	0	0		SNOWSHOE HARE		DECIDUOUS- M	ED DECIDUO	LEX (MIXE	6119139 MEADOW COMPLEX (MIXED DECIDUOUS- MEADO	6119139.M	2001-01-15 625980	V3A 2
	NAMONANO	S S S S S S S S S S S S S S S S S S S	0	0	0	0	0	0	0		SNOWSHOE HARE		MEADOW, NOR	CH-MEADOW	LEX (BIRCH	6119692 MEADOW COMPLEX (BIRCH-MEADOW, NORTH SL	6119692 M	2001-01-15 625342	2
The state of the s	UNKNOWN	17 SIGN	0	0	0	7 0	17 1	0	0		SNOWSHOE HARE	1 1	PLATEAU CON	DD (PLATEAU	XEDWOOL	6119110 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6119110 C		2
	UNKNOWN	4 SIGN	0	0	0	0	4	0	0		SNOWSHOE HARE		PLATEAU CON	DD (PLATEAU	XEDWOOL	6119110 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6119110 C	625800	2
	UNKNOWN	1 SIGN	0	0	0	0		0	0	-	SNOWSHOE HARE		NORTH SLOPE	D (NORTH S	XEDWOOL	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6120175 C	625936	1 0
	UNKNOWN	13 SIGN	0	0	0	0	13	0	0		SNOWSHOE HARE	1	NORTH SLOPE	DD (NORTH S	XEDWOOL	6119495 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6119495 C		0 0
	UNKNOWN	5 SIGN	0	0	0	0	cn I	0	0		SNOWSHOE HARE		NORTH SLOPE	D (NORTH S	XEDWOOL	6120175 CONFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6120175.00	2001-01-15 625473	0 N
	UNKNOWN	2 SIGN	0	0	0	0 0	0 0	0	0		SNOWSHOE HARE		NOBTH SI OBE	D WOOTH 6	XEDWOOL	611934/ CONIFEROUS-MIXEDWOOD	6119347 C		0 10
	UNKNOWN	16 SIGN	0 0	0	0	0 0	5 -	0	0		SNOWSHOE HARE	2 2	A I EAU)	: (PLATEAU)	SPHUCE (6119567 CONIFER-BLACK SPHUCE (PLATEAU)	6119567 C		NOO 2
PELLETS	CINKNOWN	SIGN	0 0	0 0	0 0	0 0	N	0	0		SNOWSHOE HARE	NS	3	(DRY)	SPRUCE (6110050 CONIFER-BLACK SPRUCE (DRY)	6110050 C		AN00 2
CRE ALSO TRAILS	MANONAND	SIGN	0	0	0	0	ω	0	0		SNOWSHOE HARE	NS			SPRUCE	6119764 CONIFER-BLACK SPRUCE	6119764 C	2001-01-15 625980	2
END TRANSECT: 625020E 6119400N	MANONANIO	SIGN	0	0	0	0	30	0	0		SNOWSHOE HARE	NS			SPRUCE	6119764 CONIFER-BLACK SPRUCE	6119764 CO	2001-01-15 625980	2
	NAMONANA	S SIGN	c	0	0	0	25	0	0		SNOWSHOE HARE	NS			SPRUCE	6119764 CONIFER-BLACK SPRUCE	6119764 C	2001-01-15 625980	2
CH20. ALSO IHAILS.	CNKNOWN	2 SIGN	0	0	0	0	N	0	0		SNOWSHOE HARE	NS	LATEAU)	E (PLATEAU)	SPRUCE	6119435 CONIFER- BLACK SPRUCE	6119435 C	2000-06-27 625915	1
ALSO TRAIL	ONKNOWN	0 FLY	0	0	0		-	0	0		SHARP-SHINNED HAWK	Ę.	PLATEAU)	DD (PLATEAU	XEDWOOL	6114700 CONIFEROUS-MIXEDWOOD (PLATEAU)	6114700 C	2000-08-08 621750	
CVEH	UNKNOWN	200 FLY	0 2	0	0	0	200 200		0		SANDHILL CRANE	SA				VERHEAD	6120317 OVERHEAD		
	UNKNOWN	200 FLY	0 2	0	0	0	200 200	0	0		SANDHILL CRANE		4			VER HEAD	6119741 OVER HEAD	625976	
ON W3B	UNKNOWN	OOTHER	0	0	0	_	-	0	0		RUFFED GROUSE	-	CIDUOUS- MEA	DECIDUOUS	EX (MIX.	6118979 MEADOW COMPLEX (MIX. DECIDUOUS- MEADOW	6118979 M	626151	0
FAMILY GROUP	UNKNOWN	0 OTHER	0	0	0	_	0		0		RUFFED GROUSE		SPEN-MEADO	CH-ASPEN-M	EX (BIRCH	6119460 MEADOW COMPLEX (BIRCH-ASPEN-MEADOW)	6119460 M		
ON W8	UNKNOWN	0 OTHER	0	0	0	_	-	0	0		AUFFED GROUSE		JPPER N. SLOP	D (UPPER N	XEDWOOL	6120175 CONIFEROUS-MIXEDWOOD (UPPER N. SLOPE)	6120175 C		8
	UNKNOWN	0 SONG	0	0	0	_	0	0	_	E	RUBY-CROWNED KINGLET	B	SLOPE)	D (SLOPE)	XEDWOOL	6114827 CONIFEROUS-MIXEDWOOD (SLOPE)	6114827 C		
	UNKNOWN	0 SONG	0	0	0	_	0	0		E	RUBY-CROWNED KINGLET		SLOPE SPR-BIF	D (SLOPE SI	XEDWOOL	6120452 CONIFEROUS-MIXEDWOOD (SLOPE SPR-BIRCH-S	6120452 C	630812	
	UNKNOWN	0 SONG	0	0	0	_	0	0	_	띄	RUBY-CROWNED KINGLET		PLATEAU W. SF	D (PLATEAU	XEDWOOL	6119384 CONIFEROUS-MIXEDWOOD (PLATEAU W. SPRUC	6119384 CC	625499	
OFF CR31. BLACK SPRUCE-SCATTERED PI	UNKNOWN	0 SONG	0	0	0		0	0	_	9	RUBY-CROWNED KINGLET		PLATEAU CON	D (PLATEAU	XEDWOOD	CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6118803 CC		0
	UNKNOWN	0 SONG	0	0	0	_	0	0	_	田	RUBY-CROWNED KINGLET	AU.	PLATEAU)	D (PLATEAL	XEDWOOD	6120086 CONIFEROUS-MIXEDWOOD (PLATEAU)	6120086 CC		טו
	UNKNOWN	0 SONG	0	0	0	_	0	0	_	9	RUBY-CROWNED KINGLET	R/PIN RUI	(PLATEAU B SP-FIR/PIN	(PLATEAU B	SPRUCE (6114349 CONIFER-BLACK SPRUCE	6114349 CC	623475	+
	UNKNOWN	0 SONG	0	0	0	_	0	0	-	띄	RUBY-CROWNED KINGLET	B	3	(DRY)	SPRUCE (6110050 CONIFER-BLACK SPRUCE (DRY)	6110050 CC	625340	+
INCLUDES SMALL AREA OF BOG	UNKNOWN	0 SONG	0	0	0	_	0	0	-	띄	RUBY-CROWNED KINGLET		LATEAU)	(PLATEAU)	SPRUCE	6119435 CONIFER- BLACK SPRUCE (PLATEAU)	6119435 CC	625915	2
	UNKNOWN	0 SONG	0	0	0	_	0	0	-	BEAK	ROSE-BREASTED GROSBEAK	1	BIRCH-MEADO	EN-BIRCH-M	EX (ASPE	6119485 MEADOW COMPLEX (ASPEN-BIRCH-MEADOW-SC	6119485 ME	624490	+
	UNKNOWN	0 SONG	0	0	0	_	0	0	-	BEAK	ROSE-BREASTED GROSBEAK	IEAD RO	SPEN-BIRCH-N	N (ASPEN-BIR	CH/ASPEN	6119350 DECIDUOUS BIRCH/ASPEN (ASPEN-BIRCH-MEAD	6119350 DE	624200	H15 20
SITE #26. SCATTERED PINE AND FIR.	UNKNOWN	0 SONG	0	0	0	_	0	0	-	BEAK	6109654 CONJEEROUS-MIXEDWOOD (W. SPRUCE-BIRCH-A ROSE-BREASTED GROSBEAK	CH-A RO	N SPRUCE-BIF	D W SPRU	XEDWOOD	ONIEEROUS-MI	6109654 CC	604530	+
	NWOWN	0 SONG	0	0	0	_	0	0	-		RED-EYED VIREO		LOPE ASPEN)	N (SLOPE AS	CHIASPEN	6119608 DECIDUOUS BIRCH/ASPEN (SLOPE ASPEN)	6119608 DE	629356	100 CC
	UNKNOWN	0 SONG	0	0	0	_	0	0		-	RED-EYED VIREO	ER P RE	BIRCH/ASPEN (ASPEN IN CONIFER P	N (ASPEN IN	CH/ASPEN	CIDLIOUS BIBO	6117500 DECIDLIQUE	805305	
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OFF CR31. BLACK SPRUCE-SCATTERED PI	UNKNOWN	0 CALL	0	0	0	_	-	0	0	H	RED-BREASTED NUTHATCH		PLATEAU CON	D (PLATEAU	XEDWOOL	6118803 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6118803 C	628005	AN00 20
more white than black spruce	UNKNOWN	0 CALL	0	0	0	_	-	0	0	I C	6115776 CONIFEROUS-MIXEDWOOD (PINE-SPR-FIR-BIRCH RED-BREASTED NUTHATCH	SIRCH RE	PINE-SPR-FIR-F	D (PINE-SPF	XEDWOOL	ONIFEROUS-MI	6115776 CO	2000-06-28 624320	A11 20
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CESSURE 6 11/900E/TODNETHE PLANCES PRIVACE (EDICAL) SPECIALES MALE FRANÇANI (VITA DUMBER) (MICHAN (VITA DUMBER) (MICHAN) MALE FRANÇANI (VITA DUMBER) (MICHAN) MALE FRANÇANI (VITA DUMBER) (MICHAN) MALE FRANÇANI (VITA DUMBER) (MICHAN) MALE FRANÇANI (VITA DUMBER) (MICHAN) MALE FRANÇANI (VITA DUMBER) (MICHAN) MALE FRANÇANI (MICHAN	The second line with the secon	CINKINOVIN	RSIGN	0	0	0	3. 18	2	0	UNIDENTIFIED DEER		
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IUTIM_EQUTM_NOF VEG_TYPE	V2	UNKNOWN	2 CALL	0	0	0	N	0		TENNESSEE WARBLER	624/34 6119400 MICADOW COMPLEX (ALCERTSON)	
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UTIM_Ed/UTIM_NON VEG_TYPE		UNKNOWN	OOTHER	0	0	1		0	-	SPRUCE GROUSE		RAN00
UTIM_EAUTIM_NOT SPECIES MALE\$FEMA UNKN TOT ADU SUB_IVNG_IVNG UNVBEHAVIO FOOD_TYPE C25836 6119885 CONIFER-BLACK SPRUCE (EDGE SOUTHERN RED.BACKED VO 0 1 1 1 0 0 0 0THER UNKNOWN 028912 6119837 CONIFEROUS-MIXEDWOOD (BLACK SPRUCE-FIR- SOUTHERN RED.BACKED VO 0 0 2 2 0 0 0 0 0 0 0THER UNKNOWN 022947 6119437 I CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER) SOUTHERN RED.BACKED VO 0 1 1 1 0 0 0 0THER UNKNOWN 022947 6119437 I CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER) SOUTHERN RED.BACKED VO 0 1 1 1 0 0 0 0THER UNKNOWN 022947 6119432 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 3 3 3 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 CONIFEROUS-MIXEDWOOD (SLOPE SPRI-BIRCH SOUTHERN RED.BACKED VO 0 0 1 1 1 0 0 0 0 0THER UNKNOWN 02994 610942 610	OFF CR6	UNKNOWN	0 OTHER	0	0	1	_	0	0	SPRUCE GROUSE		RANDO
UTM_EAUTM_NOT		UNKNOWN	0 OTHER	0	0	1		0		SPRUCE GROUSE	6104226	RANOO.
UTIM_ER/UTIM_NOT	CR11	UNKNOWN	0 SIGN	0		1 0	-	0		SPRUCE GROUSE	622974	RANOO
UTIM_ EĞUTIM_NOĞ VEG_TYPE SPECIES MALE∯EMAĞUNKĞİTOTADUŞUB İYNG İNĞÜLMĞEHAVÜĞPOOD. TYPE 622836 6119865 CONIFER-BLACK SPRUCE (EDGE) SOUTHERN RED-BAÇKED VO 0 0 1 1 0 0 0 OTHER UNKNOWN 5X2 TRAPS. 622807 611987 CONIFEROUS-MIXEDWOOD (BLACK SPRUCE-FIR- SOUTHERN RED-BAÇKED VO 0 0 2 0 0 0 2 OTHER UNKNOWN 10X2 TRAPS. WPT 622047 6114571 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER) SOUTHERN RED-BAÇKED VO 0 0 1 1 0 0 0 OTHER UNKNOWN 10X2 TRAPS. WPT	10x2 TRAPS. 4 TRAPS PREDATED.	UNKNOWN	0 OTHER	0	0	3 (G	0		SOUTHERN RED-BACKED VO	625966	M8
UTM_ EAUTM_NON_ VEG_TYPE SPECIES MALE∮FEMA UNKNÎTOT ADU \$UB_ YNG_ YNG UNKBEHAVIO FOOD_TYPE 625836 6119685 CONIFER-BLACK SPRUCE (EDGE) SOUTHERN RED-BACKED VO 0 0 1 1 0 0 0 OTHER UNKNOWN 5X2 TRAPS 625812 6119687 CONIFEROUS-MIXEDWOOD (BLACK SPRUCE-FIR. SOUTHERN RED-BACKED VO 0 0 2 2 0 0 0 2 OTHER UNKNOWN 10X2 TRAPS WPT		UNKNOWN	0 OTHER	0	0	1	→	0		SOUTHERN RED-BACKED VO	622047 6114571 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	3
UTIM_EAUTIM_NOH VEG_TYPE SPECIES MALE∜FEMAUNKNTOTJADUI\$UB_YNG_YNGUNNBEHAVIOFOOD_TYPE SPECIES MALE∜FEMAUNKNTOTJADUI\$UB_YNG_YNGUNNBEHAVIOFOOD_TYPE NTWO 0 0 0 0THER UNKNOWN 5X2 TRAPS	10X2 TRAPS. WPT 272.	UNKNOWN	2 OTHER	0	0	0	2	0		SOUTHERN RED-BACKED VO	07 625812	X :
ITM EDITM NOT VEG TYPE SPECIES MALESFEMAUNKNTOTADUISUB TYNG YNGUNMBEHAVIOFOOD TYPE	5X2 TRAPS	UNKNOWN		0	ſ	-		0		SOUTHERN RED-BACKED VO	625836 6119685 CONIFER-BLACK SPRUCE	MIO
		FOOD TYPE		YNGUN	NAG.	ULSUB		AUNK	ESFEM	SPECIES MA	MTI	31 000

	UNKNOWN	0 6 SIGN	0 0	0	6	0 0		1	ATEAU CONIFER)	6119110 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6119110 CON	625800	2001-01-15	W4
END TRANSECT: 625809E, 6119306N.		0 4 SIGN	0	0	4	0			ATEAU CONIFER)	6119110 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6119110 CON		2001-01-15	₩4
		0 9 SIGN	0 0	0	9		:	- 4	RTH SLOPE MIXE	6119495 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6119495 CON		2001-01-15	W5
END TRANSECT: 625936E, 6120175N	NWONNU	0 6 SIGN	0	0	0	0			(NORTH SLOPE MIXE	6120255 CONIFEROUS-MIXEDWOOD (NC	6120255 CON	625789	2001-01-15	W7
END TRANSECT: 625300E, 6119500N		0 4 SIGN	0	0	4	0			RTH SLOPE MIXE	6119495 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6119495 CON	625473	2001-01-15	W5
END TRANSECT: 626038E, 6119984N		0 2 SIGN	0	0	2	0			RTH SLOPE MIXE	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6120175 CON	625936	2001-01-15	W8
	UNKNOWN	0 20 SIGN	0 0	0	20 2				RTH SLOPE MIXE	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6120175 CON	625936	2001-01-15	NA S
		- 1	0	0	-				BTH SLOPE MIXE	6119495 CONIEEROUS MIXEDWOOD (NORTH SI OPE	6119495 CON	625473	2001-01-15	W/N
TRANSECT W8 HIGHER ON SLOPE THAN W			0	0 (=	0 0		WAPITI	BTH SLOPE MIXE	6139175 CONFEEDOLS-MIXEDWOOD (NORTH SLOPE MIXE	6120175 CON		2001-01-15	W2
	UNKNOWN	0 10 SIGN		0 0		1		WAPIII		6119347 CONIFEROUS-MIXEDWOOD	6119347 CON	.,	2001-01-15	W2
	CNKNOWN	O 10 SIGN		0 0	5 =			WAPIII		6119347 CONIFEROUS-MIXEDWOOD	6119347 CON		2001-01-15	W2
Lerre 19	CIAKIONAM			0 0				WAPITI	(EAU)	6119567 CONIFER-BLACK SPRUCE (PLATEAU)	6119567 CON	6 626076	2000-09-06	RANOO
DELL'ETO	1	O I SIGN		0	=	Ī		WAPITI		6119764 CONIFER-BLACK SPRUCE	6119764 CON	5 625980	2001-01-15	×3
END TRANSECT: 625020F 6119400N		O 3 SIGN	0	0	ω			WAPITI		6119764 CONIFER-BLACK SPRUCE	6119764 CON	5 625980	2001-01-15	¥.
END THANSECT: 625929E, 6119400N	ONKNOWN	0 11 SIGN	0	0	11			WAPITI		6119764 CONIFER-BLACK SPRUCE	6119764 CON	5 625980	2001-01-15	₹.
PINIUS CONTORTA-ANDROMEDA-CHAMAED	BROWSE	0 OSIGN	0	0	0		TIFIED UNGULATE	UNIDEN	CHAMAEDAPHNE	6104216 OPEN BOG (PINE-ANDROMEDA-CHAMAEDAPHNE) UNIDENTIFIED	6104216 OPE		2000-08-06	Вз
IN V6: PICEA MARIANA-CHAMAEDAPHNE-L	BROWSE	0 0 SIGN	0	0	0	0	TIFIED UNGULATE	N UNIDEN	EDAPHNE-LEDU	6099341 OPEN BOG (P. MARIANA-CHAMAEDAPHNE-LEDUM UNIDENTIFIED UNGULATE	6099341 OPE		2000-08-07	85
PICEA MARIANA-CHAMAEDAPHNE-LEDUM-	BROWSE	0 0 SIGN	0	0	0	0	FIFIED UNGULATE	N UNIDEN	EDAPHNE-LEDU	6099341 OPEN BOG (P. MARIANA-CHAMAEDAPHNE-LEDUM UNIDENTIFIED UNGULATE	6099341 OPE		2000-08-07	85
CAREX AQUATILIS-ANDROMEDA-SMILACIN	BROWSE	0 0 SIGN	0	0	0	0	TIFIED UNGULATE	H UNIDEN	A-SMILACINA-SPI	6099283 OPEN BOG (CAREX-ANDROMEDA-SMILACINA-SPH UNIDENTIFIED UNGULATE	6099283 OPE	618977	2000-08-07	B4
IN V5: CAREX AQUATILIS-ADROMEDA-SMIL	BROWSE	0 0 SIGN	0	0	0	0	UNIDENTIFIED UNGULATE		ANDROMEDA)	6099283 OPEN BOG (CAREX AQUATILIS-ANDROMEDA)	6099283 OPE	618977	2000-08-07	B 5
AT M9. HEAVILY BROWSED EXCEPT RUBU	BROWSE	0 18 SIGN	0 0	0	18 1		UNIDENTIFIED UNGULATE	UNIDEN	ROSTIS-RUBUS-C	6120423 MEADOW COMPLEX (CALAMAGROSTIS-RUBUS-C	6120423 MEAI	625919	2000-09-07	B9 5
CR13. HEAVILY BROWSED ELDER.	BROWSE	0 2 SIGN	0	2 0			UNIDENTIFIED UNGULATE	UNIDEN	CH-ALDER-MEAG	6108150 MEADOW COMPLEX (ASPEN-BIRCH-ALDER-MEAD	6108150 MEAI	621080	2000-06-26	BANOO
AT V34. ALL SPECIES HEAVILY BROWSED:	BROWSE	0 29 SIGN	0	0	29 29		UNIDENTIFIED UNGULATE		DER)	6120969 MEADOW COMPLEX (ASPEN-ALDER)	6120969 MEAI		2000-09-06	Bio
IN V8: POPULUS BALSAMIFERA-PINUS CON	BROWSE	0 2 SIGN	0	0	N		UNIDENTIFIED UNGULATE		DWOOD SLOPE)	6098954 DECIDIOUS-MIXEDWOOD (MIXEDWOOD SLOPE)	6098954 DECI		2000-08-07	B 8
POPULUS BALSAMIFERA	BROWSE	0 2 SIGN	0	2 0	N	0	TIFIED UNGULATE	UNIDENTIFIED	DWOOD SLOPE)	6098954 DECIDIOUS-MIXEDWOOD (MIXEDWOOD SLOPE)	6098954 DECI	7 618825	2000-08-07	8 8
AT M3. ALL OLD BROWSE, HEAVY ON HUC	BROWSE		0	0	7		TIFIED UNGULATE	UNIDEN	N CONFER	DECIDI IOLIS-BIBCH/ASPEN (ASPEN IN CONIFER P. UNIDENTIFIED UNGULATE	6114148 DECI	622070	2000-08-07	007
IN V10: PICEA GLAUCA-PINUS CONTORTA-	BROWSE	0 27 SIGN	0	0	N		TIFIED UNGULATE	UNIDENTIFIED	7-10%)	6104113 CONFER-PINE (PINE-DABAGOR-LEA)	6104113 CONFERCISE	622316	2000-08-07	2
5 OLD (PAPER BIRCH) HEAVY. PINUS CONT	BROWSE	0 5 SIGN	0 0	ם מ	ח כ		ONIDENTIFIED UNGOLATE		ACCINION MTH		6104080 CON	624240	2000-08-06	81
IN V3. 9 PAPER BIRCH (OLD, HEAVY).	BROWSE	O O O O O O O O O		0 0			TIFIED UNGULATE	CUNIDENTIFIED	EDUM-CORNUS	JIFER-PINE (P. CONTORTA-LEDUM-CORNUS	6104113 CONIFER-PINE	622316	2000-08-06	B ₂
PINUS CONTORTA-VACCINIOM MY LILLOUDE		0 OSIGN	0	0	1		UNIDENTIFIED UNGULATE	UNIDEN			6104080 CONIFER-PINE	624240	2000-08-06	81
AT M2. MOSTLY OLD, ALL SPECIES BROWS		0 12 SIGN	0	0	12 1	0	UNIDENTIFIED UNGULATE	UNIDEN	LAND)	6114661 CONIFER-BLACK SPRUCE (WETLAND)	6114661 CON	622050	2000-08-07	B7
CR24	z	0 0 SIGN	0	_	-	0	UNIDENTIFIED DEER		OD-MEADOW)	6120478 MEADOW COMPLEX (MIXEDWOOD-MEADOW)	6120478 MEAI	630286	2000-06-28	PAN00
END TRANSECT: 626168E, 6119058N		0 36 SIGN	0	0	36 36	0	UNIDENTIFIED DEER	UNIDEN	CIDUOUS- MEADO	6119139 MEADOW COMPLEX (MIXED DECIDUOUS- MEADO	6119139 MEAI	625980	2001-01-15	N3A
TRANSECT END: 626168E, 6119058N	i	0 24 SIGN	0	0	24 24	0	TIFIED DEER	UNIDEN	CIDUOUS- MEADO	6119139 MEADOW COMPLEX (MIXED DECIDUOUS- MEADO UNIDENTIFIED DEER	6119139 MEAI	625980	2001-01-15	N3A
The state of the s	UNKNOWN	0 8 SIGN	0	0	00	0	UNIDENTIFIED DEER	UNIDEN	CIDUOUS- MEADO	6118979 MEADOW COMPLEX (MIXED DECIDUOUS- MEADO	6118979 MEAI	626151	2001-01-15	V3B
	UNKNOWN	0 23 SIGN	0				TIFIED DEER	UNIDEN	CIDUOUS- MEADO	6118979 MEADOW COMPLEX (MIXED DECIDUOUS- MEADO UNIDENTIFIED DEER	6118979 MEAL	626151	2001-01-15	N3B
	UNKNOWN		0		7		TIFIED DEER	UNIDEN	CIDUOUS- MEADO	6119139 MEADOW COMPLEX (MIXED DECIDUOUS- MEADO UNIDENTIFIED DEER	6119139 MEAL	625980	2001-01-15	ASA ASA
	UNKNOWN	0 10 SIGN	0	0			TIFIED DEER		CIDLIOUS- MEADO	611892 MEADOW COMPLEX (MIXED DECIDING IS- MEADO	6118979 MEA	626151	2001-01-15	No P
	UNKNOWN	0 40 SIGN	0	0	40 40		UNIDENTIFIED DEER		ADOW NORTH SI	6110602 MEADOW COMPLEX (BIRCH-MEADOW NORTH SL	6119692 MEA	605340	2000-00-20	NA NA
CA12		0 OSIGN	0 0			0 0	UNIDENTIFIED DEER		ASP-MEAD-EIB/P	611942/ CONIFEROUS-MIXEDWOOD (SLOPE)	6119427 CON	625927	2000-09-06	OONA
ON MB	NACONAL NACONA	OSIGN					CNIDENTIFIED DEER		OPE SPR-ASP-PIN	6114164 CONIFEROUS-MIXEDWOOD (SLOPE SPR-ASP-PIN	6114164 CON	623661	2000-06-28	OONA
OFF CR19		0 0 SIGN	0	_	_		UNIDENTIFIED DEER		ATEAU W. SPRUC	6119214 CONIFEROUS-MIXEDWOOD (PLATEAU W. SPRUC	6119214 CON	625533	2000-06-27	PANOO
CA10		0 0 SIGN	0		-	0	UNIDENTIFIED DEER	1	ATEAU MIXEDWO	6114874 CONIFEROUS-MIXEDWOOD (PLATEAU MIXEDWO	6114874 CONI	623787	2000-06-28	ANOO
		0 25 SIGN	0 0	0	25 25	0	UNIDENTIFIED DEER		ATEAU CONIFER)	6119110 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6119110 CON	625800	2001-01-15	№
	UNKNOWN	0 43 SIGN	0	0	43 43	0	UNIDENTIFIED DEER		ATEAU CONIFER)	625800 6119110 CONIFEROUS-MIXEDWOOD (PLATEAU CONIFER)	6119110 CON		2001-01-15	24
	UNKNOWN	0 51 SIGN	0	0	51 5		UNIDENTIFIED DEER		(PI ATEAU CONIFER)	6119110 CONIEEBOI IS-MIXEDWOOD (PL	6119110 CON	625800	2001-01-15	2 2
CA11; more white than black spruce	UNKNOWN	0 0 SIGN	0	_	-		UNIDENTIFIED DEER		IE-SPRUCE-FIR-B	6115776 CONIFEROUS-MIXEDWOOD (PINE-SPRUCE-FIR-BI	6115776 CON	624320	2000-00-28	
CA7. MORE BLACK SPRUCE THAN WHITE.	CNKNOWN	0 OSIGN	0 0		1 60	0 0	UNIDENTIFIED DEER		(PINE-R/ W SPRI ICE-S	61201/3 CONIFEROUS-MIXEDWOOD (PINE-R/ W SPRINGE-S	6120175 CON	622936	2001-01-15	8
	NWONNI	O SE SIGN		0 0	1	0 0	CNICEN I FIEC CEEK		HIH SLOPE MIXE	6119495 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6119495 CON	625473	2001-01-15	35
	UNKNOWN	0 31 SIGN	0 0	0	1 1	0	UNIDENTIFIED DEER	3	RTH SLOPE MIXE	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6120175 CON	625936	2001-01-15	8
	UNKNOWN	0 39 SIGN	0	0	39: 39	0	UNIDENTIFIED DEER	1	RTH SLOPE MIXE	6120175 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6120175 CON	625936	2001-01-15	V 8
	UNKNOWN	0 40 SIGN	0 0	0	40 40	0 0	UNIDENTIFIED DEER		RTH SLOPE MIXE	6119495 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6119495 CON	625473	2001-01-15	85
	UNKNOWN	0 34 SIGN	0	0	34 34	0	UNIDENTIFIED DEER		RTH SLOPE MIXE	6120255 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6120255 CON	625789	2001-01-15	W7
	UNKNOWN		0	Ī	28 28	0	UNIDENTIFIED DEER		ATH SLOPE MIXE	6119495 CONIFEROUS-MIXEDWOOD (NORTH SLOPE MIXE	6119495 CON	5 625473	2001-01-15	\$5 X
END TRANSECT: 625958E, 6119174N	UNKNOWN	0 24 SIGN	0	0	24 24	0	UNIDENTIFIED DEER	UNIDEN		6119347 CONJEEBOLIS-MIXEDWOOD	6119347 CON		2001-01-15	CAN
	NAAONWING	0. 24 SIGN	0	0	24 2	0	UNIDENTIFIED DEER	Nacini		E119347 CONIEEBOI IS MIXEDWOOD	NOO TROOPED	-	2204 04 4	211

UNKNOWN W OF SITE #64. WPT 54. WHITE SPRUCE-S	UNKNOWN		0 0	0 0	0 -	0	-	YELLOW-RUMPED WARBLER	6115776 CONIFEROUS-MIXEDWOOD (PINE-SPR-FIR-BIRCH	2000-06-28 624320 6115	CA11 2
more white than black spruce	UNKNOWN	0 SONG	-	0 0	i N		2 0	ELLOW-RUMPED WARBLER	(PINE-SPR-ASPEN-SC		CA7 2
OFFICER	NACIONAIN	O SONG		0	-	1	1.0	YELLOW-RUMPED WARBLER	6110065 CONIFEROUS-MIXEDWOOD (BURN; B. SPRUCE-S	627819	0
Office	UNKNOWN	0 SONG		0	1		1 0	YELLOW-RUMPED WARBLER	(PLATEAU)	630314	
And the last of th	UNKNOWN	o SONG	0	0	1	0	1 0	YELLOW-RUMPED WARBLER	/00D	625205	w
	UNKNOWN	0 SONG	0	0	1	0	1 0	YELLOW-RUMPED WARBLER		627365	
	UNKNOWN	0 OTHER	0		-		1 0	YELLOW-RUMPED WARBLER	6119567 CONIFER-BLACK SPRUCE (PLATEAU)	2000-09-06 626076 6119	BANDO
SITE #60. WPT 56. BLACK SPRUCE-SCATT	UNKNOWN	0 SONG	0	-	ω - ω -	0 0	ω - 0 0	YELLOW-RUMPED WARBLER	Ž	623475	+-
	UNKNOWN	O SONG	0	0	4 N		2 0	YELLOW-RUMPED WARBLER	6110050 CONIFER-BLACK SPRUCE (DRY)	625340	CR6 2
ONE	NANONN	CALL		0	1		0	YELLOW-RUMPED WARBLER	6119427 CONIFER-BLACK SPRUCE (AT EDGE OF SEDGE P	2000-09-06 625927 6119	RANDO 2
ON MS	NACIONAIN	2 CALL	0	0	2	N		'ELLOW-RUMPED WARBLER	0	2000-09-06 626046 6119	RAN00 21
	UNKNOWN	0 SONG	0	0	_	0	1 0	YELLOW-RUMPED WARBLER	6119435 CONIFER- BLACK SPRUCE (PLATEAU)	625915	
OFF CR15	UNKNOWN	0 DRUM	0	0		_	0	YELLOW-BELLIED SAPSUCKE		624200	
CR14. FEEDING HOLES IN BIRCH; ALSO OL	UNKNOWN	2 SIGN	0		2 0	2		YELLOW-BELLIED SAPSUCKE	-ALDER-REED	2000-06-26 620741 6108	AANOO 20
	UNKNOWN	0 SIGN	0	0 0	_			YELLOW-BELLIED SAPSUCKE	6119926 CONIFEROUS-MIXEDWOOD (WHITE SPHOCE-BIRC) YELLOW-BELLIED SAPSUCKE	626272	
SIGN ON BIRCH	UNKNOWN	1 SIGN	0 0	0 0	-		0 0	YELLOW-BELLIED SAPSUCKE	6119980 CONIFEROUS-MIXEDWOOD (PLATEAU ASPEN-SP	629911	1
NW SIDE OF CUTLINE	NWONNI	O CALL		0 0				YELLOW-BELLIED FLYCATCH	1	2000-06-27 624200 6108	3AN00 2
Onn CD15	UNKNOWN	0 SONG	0	0	-	0		YELLOW WARBLER	ð	624200	
	UNKNOWN	0 SONG	0	0	-1	0	1 0	WINTER WREN		629301	
	UNKNOWN	0 SONG	0	0	1	0	1 0	WINTER WREN	(SLOPE SPRUCE)	625346	0
WPT 48. LARGE HALF-CIRCLE. NO ALDER	UNKNOWN	0 SONG	0	0		0	1 0	WINTER WREN		630341	
OFF CA5	UNKNOWN	0 SONG	0	0	_	0	1 0	WINTER WREN	(SLOPE PINE-SPRBI	2000-06-28 622108 6114	DANOO 20
NEAR SITE #61. WPT 50. OPEN WHITE SPR	UNKNOWN	0 SONG	0	0	_	0 1		WINTER WREN	6120452 CONFEROUS-MIXEDWOOD (SLOFE SEPERINGER) WINTER WREN	629572	
	UNKNOWN	0FLY	0	0 (N -	ν -	0 0	WHITE-WINGED CROSSBILL	6114150 CONIFEROUS-MIXEDWOOD (SLOPE MIXEDWOOD-	622480	+
	UNKNOWN	0 CALL	0 0	0	-	4 0	0 -	(SLOPE TH-BIHCH-SP WHITE WINGED CROSSBILL	6115549 CONIFEROUS-MIXEDWOOD (SLOPE HIR-BIHCH-SP	621218	8
CTT CDZ:	NACONNIC	OCALL	0 0	0 0		0	-	VHITE-THROATED SPARROW	6120460 MEADOW COMPLEX (SLOPE BIRCH-ASPEN-MEAD WHITE-THROATED SPARROW	625825	
OFF COST	NAMONAN	5 CALL	0		Un O	5	0	WHITE-THROATED SPARROW	6120317 MEADOW COMPLEX (BIRCH-REED GRASS)	2000-09-07 625926 6120	RAN00 20
	UNKNOWN	5 CALL	0		51			VHITE-THROATED SPARROW		625887	8
	UNKNOWN	0 SONG	0	0	_	0	1 0	WHITE-THROATED SPARROW		624490	-
SITE #14	UNKNOWN	0 SONG	0	0	2	0	2 0	WHITE-THROATED SPARROW	6108143 MEADOW COMPLEX (ASPEN-BIRCH-ALDER-REED V	2000-06-26 620741 6108	P14 20
N OF SITE 19	UNKNOWN	0 SONG	0 0	0 0	1 6	0	0 0	WHITE THROATED SPARROW	NET A	624200	
***	NWONNI	ONO CONC	0 0	0 0	o -		-	WHITE-IHROATED SPARROW	ł	628035	CA1 20
SITE #35 WPT 261 MIXED PINE-BIRCH-AS	NWONNIN	O SONG	0 0	0		0	0	WHITE-THROATED SPARROW	DWO		CR26 20
OFF CA11; CA11; more white than black spruc	UNKNOWN	0 SONG	0	0		0	1 0	WHITE-THROATED SPARROW		2000-06-28 624320 6115	0
	UNKNOWN	0 SONG	0	0	1	0	1 0	WARBLING VIREO	0)	621388	2
And the second s	UNKNOWN	0 SONG	0	0	-	0		WARBLING VIREO		625024	-
	UNKNOWN	0 SONG	0	0	2	0	20	WARBLING VIREO		2000-06-26 624490 6119) C
	NKNOWN	0 SONG	0	0 (0	0 0	WARRI ING VIREO	6108130 MEADOW COMPLEX (ASPEN-BIRCH-ALDER-MEAD V	621080	+-
	UNKNOWN	0.SONG	0 0	0	1 6	5 0	1 N	WARBLING VIREO		624734	+
	NWONNI	O SONG	o c	0 0	o -		0 0	WARBLING VIREO		-	+
AND STREET STREET	UNKNOWN	0 SONG	0	0	_	0	1	WARBLING VIREO		2000-06-27 624200 6119	CR15 20
	UNKNOWN	0 SONG	0	0		0	1 0	VARBLING VIREO	6110279 CONIFEROUS-MIXEDWOOD (W. SPRUCE-BIRCH-PI WARBLING VIREO	2000-06-26 626025 6110	
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APPENDIX 6. VEGETATION DATABASE RECORDS

The following is a sample printout of the vegetation database.	The original database is in
Access 2 format.	



	1 dbh 25-34 cm	1 dbh 25-34	1 dbh 15-20	1 dbh 15-20		1 dbh 15-25 cm	1 dbh 15-20 cm	1 dbh 15-20 cm	1 dbh 15-20 cm	1 dbh 15-22 cm	0 dbh 13 cm	0 dbh 16-18 cm	0	0	0 dbh 12-15 cm	0 dbh 14-16 cm	0 dbh 14-16 cm	1 dbh 8- 10 cm	0	1 dbh 8- 10 cm	-	0 dbh 13 cm
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myrtilloides/Cornus	Luviso Pinus contorta/Vaccinium lic myrtilloides/Cornus	canadensis	mariana/Chamaedaphne- Ledum/Carex	Picea mariana/Ledum/Rubus chamaemorus/Sphagnum	Populus balsamifera-Pinus contorta-Betula papyrifera	Pinus contorta/Vaccinium myrtilloides-Ledum	Populus balsamifera-Betula papyrifera/Viburnum edule-Bosa acicularis	Salix bebbiana/Calamagrostis canadensis-Equisetum	arvense Betula papyrifera/Viburnum edule-Rosa acicularis	Betula papyrifera/Viburnum edule-Rosa acicularis	Picea mariana/Ledum groenlandicum/Sphagnum	Pinus contorta/Shepherdia canadensis	Salix bebbiana/Calamagrostis canadensis	Populus tremuloides-Picea glauca/Viburnum edule-Rosa acicularis	Picea glauca-Populus tremuloides/Viburnum edule Rosa acicularis	Picea mariana/Ledum groenlandicum/Sphagnum	Populus tremuloides/Rosa acicularis/Calamagrostis canadensis	Populus tremuloides/Viburnum edule- Rosa acicularis	Populus tremuloides/Rosa acicularis/Calamagrostis canadensis	Populus tremuloides/Rosa acicularis/Calamagrostis	Picea mariana/Ledum groenlandicum/Sphagnum	Populus tremuloides/Rosa acicularis/Calamagrostis canadensis	Organi Picea mariana/Ledum
	GRWP Luviso .52 lic	GRWP Organi	o	GRWP Organi	GRWP Luviso I	GRWP Luviso I	YGPT. Luviso	YGPT. Gleys 9	YGPT. Luviso I	YGPT. Luviso I	YGPT. Organi I	YGPT. Luviso 1	YGPT, Gleys 8	YGPT. Luviso (YGPT. Luviso	YGPT, Organi 18 c	YGPT. Luviso 19 lic	YGPT. Luviso	YGPT. Luviso 20 lic	YGPT, Luviso 21 lic	YGPT. Organi 22 c	YGPT. Luviso 23 lic	YGPT, Organi
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Plots

311	gronnancicantheatrainios		10-00		(11)(1)	Tevel	wen cranied	-					E.	E_	E	i .				neight
Regor	YGPT. Regos mixed herbaceous lakeshore 467220 6110221 1999- 5 10 flat olio	467220 6110221	1999-	5 10 flat	flat (n/a)	Low	Poorly drained	0	50	10	0	09	0	0	0	0	0	0 20	0	
90	YGPT Gleys Salix bebbiana/Calamagrostis 467288 6110311 1999- 20 20 flat olic canadasis-Equisetum 07-16	467288 6110311	1999-	20 20 flat	flat (n/a)	Low	Poorly drained	0	02	-	ō -	0	0	1 5 - 10 m	5.5 - 10 m	09	ro	0 80	2	tree height
0	apyrifera/Viburnum osa acicularis	467238 6110602 1999- 20 20 flat	1999- 07-16	20 20 flat	flat (n/a)	Low	Moderately well drained	0	75		0	0	0.10 - 15 m	80.1-2 m	52-5 E	ις.	20	2 30	-	tree height
l io	YGPT, Luviso Betula papyrifera/Viburnum	467458 6110565 1999- 20 20 flat	1999-	20 20 flat	flat (n/a)	Low	Moderately well drained	0	70	m	0	0	0 10 - 15 m	1 m	52.5	S.	04	08	2	tree
l io	YGPT. Luviso Betula papyrifera/Viburnum 9 lic edule-Rosa acicularis	467504 6110779 1999- 20 20 flat 07-16	1999- 07-16	20 20 flat	flat (n/a)	Low	Moderately well drained	0	75	ro	0	0	0 10 - 15 m	60 1 - 2 m	52-5 m	20	20	0 30	0	tree



5 Calamagrostis canadensis (Michx.) Beauv. 7 Carex aquatilis Wahlenb. 6 Carex utriculata Boott 4 Potentilla palustris (L.) Scop. 9 Drepanocladus (C. Mil.) G. Roth 8 Sphagnum L. 2 Betula glandulosa Michx. 3 Ledum groenlandicum Oeder 1 Salix planifolia Pursh 7 Bryoria Brodo & D. Hawksw. 8 Cetraria Ach. 9 Cetraria pinastri (Scop.) Gray 5 Hypogymnia physodes (L.) Nyl. 6 Usnea Dill. ex Adans. 1 Actaea rubra (Ait.) Willd. 7 Arnica cordifolia Hook. 0 Athyrium filix-femina (L.) Roth 4 Calamagrostis canadensis (Michx.) Beauv. 0 Cornus canadensis L. 9 Epilobium angustifolium L. 3 Gymnocarpium dryopteris (L.) Newman 9 Linnaea borealis L. 2 Lycopodium annotinum L. 8 Maianthemum canadense Desf.	bluejoint water sedge Northwest Territory sedge = Comarum palustre drepanocladus moss sphagnum = Betula nana bog Labradortea diamondleaf willow horsehair lichen cetraria lichen = Vulpicida pinastri tube lichen beard lichen red baneberry heartleaf arnica common ladyfern bluejoint bunchberry dogwood fireweed western oakfern twinflower	7 H 7 H 7 H 8 N 8 N 5 S2 5 S2 5 S2 10 E 10 E 10 E 10 E 10 E 10 F 10 F 10 F 10 F 10 F 10 F 10 F 10 F	10 5 50 2 25 15 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	
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9 Cetraria pinastri (Scop.) Gray 5 Hypogymnia physodes (L.) Nyl. 6 Usnea Dill. ex Adans. 1 Actaea rubra (Ait.) Willd. 7 Arnica cordifolia Hook. 0 Athyrium filix-femina (L.) Roth 4 Calamagrostis canadensis (Michx.) Beauv. 0 Cornus canadensis L. 9 Epilobium angustifolium L. 3 Gymnocarpium dryopteris (L.) Newman 9 Linnaea borealis L. 2 Lycopodium annotinum L.	Vulpicida pinastri tube lichen beard lichen red baneberry heartleaf arnica common ladyfern bluejoint bunchberry dogwood fireweed western oakfern	10 E 10 E E 7 H 7 H 7 H 7 H	0.1 0.1 0.1 0.1 1 0.1 30	
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9 Linnaea borealis L. 2 Lycopodium annotinum L.		7.H	15	
2 Lycopodium annotinum L.		the process of the same		
	stiff clubmoss	7 H	3	
			1	
	Canada beadruby	7 H	1	
5 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7H	2	
1 Rubus pedatus Sm.	strawberryleaf raspberry	7H	15	
6 Rubus pubescens Raf.	dwarf red blackberry	7H	1	
0 Senecio triangularis Hook.	arrowleaf groundsel	7H	0.1	
2 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7H	1	
8 Tiarella trifoliata L.	threeleaf foamflower	7 H	10	
		8 N	30	
		8 N	0.1	
8 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem	Saskatoon serviceberry	4 S1	0.1	
9 Rubus parviflorus Nutt.	thimbleberry	S1	5	
1 Sorbus scopulina Greene	Greene mountainash	IS1	2	
0 Viburnum edule (Michx.) Raf.	mooseberry viburnum	4 S1	0.1	
2 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	2	
5 Ribes lacustre (Pers.) Poir.	prickly currant	S2	0.1	
3 Rosa acicularis Lindl.	prickly rose	5 S2	0.1	
4 Symphoricarpos albus (L.) Blake	common snowberry	S2	0.1	
6 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	0.1	
3 Betula neoalaskana Sarg.	Alaska paper birch	T2	0.1	
1 Picea glauca (Moench) Voss	white spruce	2 T2	35 26	3 cm
2 Pinus contorta Dougl. ex Loud.				
5 Abies lasiocarpa (Hook.) Nutt.		3:T3		
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	777777			
			j	
	= Dryopteris expansa			
29 Epilobium angustifolium L.	fireweed			
23 Gymnocarpium dryopteris (L.) Newman	western oakfern		5	
3 3 3 3	3 Pleurozium schreberi (Brid.) Mitt. 4 Ptilium crista-castrensis (Hedw.) De Not. 8 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem 9 Rubus parviflorus Nutt. 1 Sorbus scopulina Greene 0 Viburnum edule (Michx.) Raf. 2 Lonicera involucrata Banks ex Spreng. 5 Ribes lacustre (Pers.) Poir. 3 Rosa acicularis Lindl. 4 Symphoricarpos albus (L.) Blake 6 Vaccinium myrtilloides Michx. 3 Betula neoalaskana Sarg. 1 Picea glauca (Moench) Voss 2 Pinus contorta Dougl. ex Loud. 5 Abies lasiocarpa (Hook.) Nutt. 7 Betula neoalaskana Sarg. 6 Populus tremuloides Michx. 7 Bryoria Brodo & D. Hawksw. 8 Cetraria Ach. 9 Cetraria pinastri (Scop.) Gray 5 Hypogymnia physodes (L.) Nyl. 6 Usnea Dill. ex Adans. 7 Arnica cordifolia Hook. 0 Athyrium filix-femina (L.) Roth 4 Calamagrostis canadensis (Michx.) Beauv. 0 Cornus canadensis L. 6 Dryopteris assimilis S. Walker 9 Epilobium angustifolium L.	3 Pleurozium schreberi (Brid.) Mitt. 4 Ptilium crista-castrensis (Hedw.) De Not. 5 Armelanchier alnifolia (Nutt.) Nutt. ex M. Roem Saskatoon serviceberry thimbleberry 6 Rubus parviflorus Nutt. 1 Sorbus scopulina Greene Greene mountainash mooseberry viburnum edule (Michx.) Raf. 2 Lonicera involucrata Banks ex Spreng. twinberry honeysuckle prickly currant prickly currant prickly rose 6 Ribes lacustre (Pers.) Poir. prickly rose 6 Vaccinium myrtilloides Michx. velvetleaf huckleberry 8 Betula neoalaskana Sarg. Alaska paper birch white spruce 9 Pinus contorta Dougl. ex Loud. lodgepole pine 5 Abies lasiocarpa (Hook.) Nutt. subalpine fir 7 Betula neoalaskana Sarg. Alaska paper birch quaking aspen 6 Populus tremuloides Michx. cetraria lichen 7 Bryoria Brodo & D. Hawksw. horsehair lichen 8 Cetraria pinastri (Scop.) Gray Vulpicida pinastri 6 Usnea Dill. ex Adans. beard lichen 9 Cetraria pinastri (Scop.) Gray = Vulpicida pinastri 9 Cylpicymnia physodes (L.) Nyl. tube lichen 9 Calamagrostis canadensis (Michx.) Beauv. bluejoint 9 Cornus canadensis L. bunchberry dogwood 9 Dryopteris assimilis S. Walker = Dryopteris expansa 9 Epilobium angustifolium L. fireweed 9 Gymnocarpium dryopteris (L.) Newman western oakfern	Pleurozium schreberi (Brid.) Mitt. Schreber's big red stem moss 8 N	Pleurozium schreberi (Brid.) Mitt. Schreber's big red stem moss 8 N 30

Plot Code	Pld Scientific Name	Common Name	Stratum S Stratum Rea	C DBH
GRWP.11	32 Lycopodium annotinum L.	stiff clubmoss	7 H	0.1
GRWP.11	28 Maianthemum canadense Desf.	Canada beadruby	7 H	1
GRWP.11	5 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1
GRWP.11	25 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	0.1
GRWP.11	21 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10
GRWP.11	22 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	, 7H	1
GRWP.11	18 Tiarella trifoliata L.	threeleaf foamflower	7 H	0.1
GRWP.11	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	30
GRWP.11	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	0.1
GRWP.11	8 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem			0.1
GRWP.11	9 Rubus parviflorus Nutt.	thimbleberry	S1	0.1
GRWP.11		Greene mountainash		0.1
GRWP.11		mooseberry viburnum	4 S1	0.1
GRWP.11		prickly rose		0.1
GRWP.11	4 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	20
GRWP.11	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	10
GRWP.11	1 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	15 34 cm
GRWP.11	3 Betula neoalaskana Sarg.	Alaska paper birch	T2	30
GRWP.11	1 Picea glauca (Moench) Voss	white spruce	2 T2	10 26 cm
GRWP.11	2 Pinus contorta Dougl. ex Loud.	lodgepole pine	T2	5 26 cm
GRWP.11	2 Populus tremuloides Michx.	quaking aspen	T2	5 25 cm
GRWP.11	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	15
			3 T3	
GRWP.11	3 Picea mariana (P. Mill.) B.S.P.	black spruce	T3	0.1
GRWP.11	6 Populus tremuloides Michx.	quaking aspen		
GRWP.12	37 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
GRWP.12	38 Cetraria Ach.	cetraria lichen	10 E	0.1
GRWP.12	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
GRWP.12	36 Usnea Dill. ex Adans.	beard lichen	E	0.1
GRWP.12	5 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	10
GRWP.12	20 Cornus canadensis L.	bunchberry dogwood	7 H	10
GRWP.12	6 Gaultheria hispidula (L.) Muhl. ex Bigelow	creeping snowberry	7 H	1
GRWP.12	32 Lycopodium annotinum L.	stiff clubmoss	Н	1
GRWP.12	21 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10
GRWP.12	3 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1
GRWP.12	7 Trientalis borealis Raf.	American starflower	7 H	2
GRWP.12	8 Dicranum fuscescens Turn.	dicranum moss	8 N	0.1
GRWP.12	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	50
GRWP.12	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	20
GRWP.12	10 Sphagnum L.	sphagnum	8 N	10
GRWP.12	11 Sorbus scopulina Greene	Greene mountainash	S1	2
GRWP.12	2 Ledum groenlandicum Oeder	bog Labradortea	5 S2	1
GRWP.12	1 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	2
GRWP.12	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	7
GRWP.12	4 Vaccinium vitis-idaea L.	lingonberry	6 S3	3
GRWP.12	1 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	50 15 cm
GRWP.12	2 Pinus contorta Dougl. ex Loud.	lodgepole pine	T2	20 20 cm
GRWP.12	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	0.1
GRWP.13	37 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
GRWP.13	38 Cetraria Ach.	cetraria lichen	10 E	0.1
GRWP.13	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
GRWP.13	36 Usnea Dill. ex Adans.	beard lichen	E	0.1
GRWP.13	1 Carex deweyana Schwein.	Dewey sedge	7 H	5
GRWP.13	4 Equisetum sylvaticum L.	woodland horsetail	7 H	2
GRWP.13	18 Gaultheria hispidula (L.) Muhl. ex Bigelow	creeping snowberry	7 H	5
GRWP.13	3 Rubus chamaemorus L.	cloudberry	7 H	15
GRWP.13	21 Rubus pedatus Sm.	strawberryleaf raspberry		
GRWP.13	2 Smilacina trifolia (L.) Desf.		7 H	2
GRWP.13		= Maianthemum trifolium	7 H	2
GRWP.13	22 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	1
	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	15
GRWP.13	6 Polytrichum commune Hedw.	polytrichum moss	8 N	5

ot Code	Pld Scientific Name	Common Name	Stratum SStratum Real (DBH
WP.13	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8N 2	0
WP.13	5 Sphagnum L.	sphagnum	8.N 4	0
NP.13	10 Viburnum edule (Michx.) Raf.	mooseberry viburnum	4S1 0.	1
WP.13	13 Ledum groenlandicum Oeder	bog Labradortea	5 S2 1	0
WP.13	12 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5.S2	2
WP.13	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2 2	5
WP.13	26 Vaccinium vitis-idaea L.	lingonberry	6.S3	5
WP.13	2 Picea mariana (P. Mill.) B.S.P.	black spruce	T2 6	0 15 cm
WP.14	37 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E 0.	1
WP.14	38 Evernia Ach.	ring lichen	10 E 0.	1
WP.14	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10E 0.	1
WP.14	36 Usnea Dill. ex Adans.	beard lichen	E 0.	1
WP.14	24 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7/H 0.	
WP.14	20 Cornus canadensis L.	bunchberry dogwood	7H 1	
WP.14	3 Dryopteris assimilis S. Walker	= Dryopteris expansa	7H 0.	
WP.14	19 Linnaea borealis L.	twinflower		1
WP.14	32 Lycopodium annotinum L.	stiff clubmoss		1
WP.14	2 Lycopodium annotinum L.	stiff clubmoss		1
WP.14	4 Orthilia secunda (L.) House	sidebells wintergreen		
WP.14	21 Rubus pedatus Sm.			
WP.14	22 Streptopus amplexifolius (L.) DC.	strawberryleaf raspberry	7H 1	
		claspleaf twistedstalk	7 H 0.	
WP.14	18 Trientalis borealis Raf.	American starflower		2
WP.14	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N 3	4
WP.14	8 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem		4 \$1 0.	
WP.14	10 Sorbus scopulina Greene	Greene mountainash	4 S1 0.	1:
WP.14	14 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	S2	1
WP.14	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2 5	0
WP.14	6 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2 1	0
WP.14	3 Betula neoalaskana Sarg.	Alaska paper birch	T2	5
WP.14	7 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	2
WP.14	2 Pinus contorta Dougl. ex Loud.	lodgepole pine	T2 5	0
WP.14	1 Populus tremuloides Michx.	quaking aspen	2 T2	1
WP.14	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	5
WP.15	36 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E 0.	1,
WP.15	37 Physcia (Schreber) Michaux	rosette lichen	10 E 0.	1
WP.15	35 Usnea Dill. ex Adans.	beard lichen	10 E 0.	1
WP.15	13 Achillea millefolium L.	common yarrow	7 H 0.	1
WP.15	11 Actaea rubra (Ait.) Willd.	red baneberry		1
WP.15	14 Aralia nudicaulis L.	wild sarsaparilla		0
WP.15	15 Arnica cordifolia Hook.	heartleaf arnica	7 H 0.	
WP.15	12 Aster ciliolatus Lindl.	Lindley's aster		2
WP.15	19 Aster conspicuus Lindl.	showy aster	7 H	1
WP.15	9 Calamagrostis canadensis (Michx.) Beauv.	bluejoint		0
WP.15	26 Cornus canadensis L.	bunchberry dogwood	7 H 0.	-
WP.15		fireweed	7 H 0.	
L	20 Epilobium angustifolium L.			
WP.15	16 Galium boreale L.	northern bedstraw		1
WP.15	17 Gymnocarpium dryopteris (L.) Newman	western oakfern		1
WP.15	32 Hieracium umbellatum L.	narrowleaf hawkweed	7 H 0.	
WP.15	10 Lathyrus ochroleucus Hook.	cream peavine		2
WP.15	25 Linnaea borealis L.	twinflower	7 H 0.	
WP.15	31 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H 0.	
WP.15	22 Mitella nuda L.	naked miterwort	7 H 0.	
WP.15	21 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H 0.	1
WP.15	27 Pyrola elliptica Nutt.	waxflower shinleaf	7 H 0.	1;
WP.15	24 Rubus pubescens Raf.	dwarf red blackberry	7 H	1
WP.15	28 Thalictrum venulosum Trel.	veiny meadowrue	H 0.	1
WP.15	23 Trientalis borealis Raf.	American starflower	7 H 0.	1
WP.15	18 Vicia americana Muhl. ex Willd.	American vetch	7 H 0.	1
WP.15	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N 0.	1
WP.15	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N 0.	

Plot Code	Pld Scientific Name	Common Name	Stratum S	Stratum	Real Co	DBH
GRWP.15	4 Alnus tenuifolia Nutt.	= Alnus incana ssp. tenuifolia	4	S1	20	
RWP.15	29 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem	Saskatoon serviceberry	4	S1	0.1	
RWP.15	6 Ribes hirtellum Michx.	hairystem gooseberry	5	S2	0.1	
RWP.15	8 Ribes lacustre (Pers.) Poir.	prickly currant		S2	0.1	
RWP.15	7 Rosa acicularis Lindl.	prickly rose	5	S2	0.1	
RWP.15	30 Rubus idaeus L.	American red raspberry	5	S2	0.1	
RWP.15	5 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5	S2	5	
GRWP.15	2 Picea glauca (Moench) Voss	white spruce		T2	0.1	25 cm
RWP.15	1 Populus tremuloides Michx.	quaking aspen	2	T2	60	15 cm
RWP.15	3 Betula neoalaskana Sarg.	Alaska paper birch	3	T3	5	
RWP.16	37 Bryoria Brodo & D. Hawksw.	horsehair lichen	10	E	0.1	
RWP.16	38 Cetraria Ach.	cetraria lichen	10	E	0.1	
GRWP.16	39 Cetraria pinastri (Scop.) Gray	= Vulpicida pinastri	10	E	0.1	
RWP.16	13 Evernia mesomorpha Nyl.	ring lichen	10	E	0.1	
RWP.16	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10	E	0.1	
RWP.16	12 Physcia (Schreber) Michaux	rosette lichen	10	E	0.1	
RWP.16	36 Usnea Dill. ex Adans.	beard lichen		Е	0.1	
RWP.16	4 Aralia nudicaulis L.	wild sarsaparilla	7	Н	20	
RWP.16	2 Arnica cordifolia Hook.	heartleaf arnica	 	Н	1	
RWP.16	8 Aster ciliolatus Lindl.	Lindley's aster	7	Н	1	
SRWP.16	24 Calamagrostis canadensis (Michx.) Beauv.	bluejoint		Н	30	
RWP.16	20 Cornus canadensis L.	bunchberry dogwood		Н	5	
SRWP.16	9 Galium boreale L.	northern bedstraw		Н	1	
SRWP.16	10 Galium triflorum Michx.	fragrant bedstraw		H	0.1	
SRWP.16	6 Gymnocarpium dryopteris (L.) Newman	western oakfern		'Н	15	
GRWP.16	3 Lathyrus ochroleucus Hook.	cream peavine	·	Н	2	
GRWP.16	19 Linnaea borealis L.	twinflower	7	Н	3	
GRWP.16	7 Lycopodium annotinum L.	stiff clubmoss		'H	1	
GRWP.16	28 Maianthemum canadense Desf.	Canada beadruby	-	'Н	1	
GRWP.16	11 Mertensia paniculata (Ait.) G. Don	tall bluebells		'H	0.1	
GRWP.16	25 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus		Н	1	
GRWP.16	5 Rubus pedatus Sm.	strawberryleaf raspberry		Н	1	
GRWP.16	26 Rubus pubescens Raf.	dwarf red blackberry		'H	1	
GRWP.16	1 Smilacina racemosa (L.) Desf.	= Maianthemum racemosum ssp. race		'H	0.1	
GRWP.16	22 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk		'H	0.1	
GRWP.16	18 Tiarella trifoliata L.	threeleaf foamflower		'H	2	
GRWP.16	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss		+		
GRWP.16				3 N	5	
GRWP.16	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss		N Od	5	
GRWP.16	8 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem			I S1	0.1	ļ
GRWP.16	11 Sorbus scopulina Greene	Greene mountainash	-	S1	0.1	
	10 Viburnum edule (Michx.) Raf.	mooseberry viburnum		S1	3	
GRWP.16 GRWP.16	13 Rosa acicularis Lindl.	prickly rose	+	S2	0.1	
GRWP.16	14 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry		S2	0.1	
	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry		S2	0.1	
GRWP.16	1 Picea glauca (Moench) Voss	white spruce	2	2 T2		20 cm
GRWP.16	2 Pinus contorta Dougl. ex Loud.	lodgepole pine		T2	+	26 cm
GRWP.16	3 Populus tremuloides Michx.	quaking aspen		T2		15 cm
GRWP.16	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3	3 T3	5	
GRWP.16	7 Abies lasiocarpa (Hook.) Nutt.	subalpine fir		ТЗ	0.1	
GRWP.16	6 Populus tremuloides Michx.	quaking aspen		ТЗ	0.1	
GRWP.17	37 Bryoria Brodo & D. Hawksw.	horsehair lichen		Ε	0.1	
GRWP.17	38 Cetraria Ach.	cetraria lichen	10	E	0.1	
GRWP.17	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10	Ε	0.1	
GRWP.17	36 Usnea Dill. ex Adans.	beard lichen		E	0.1	
GRWP.17	20 Cornus canadensis L.	bunchberry dogwood	7	7 H	10	
GRWP.17	6 Equisetum sylvaticum L.	woodland horsetail	7	7 Н	0.1	
GRWP.17	4 Linnaea borealis L.	twinflower	7	7 H	2	
GRWP.17	8 Listera cordata (L.) R. Br. ex Ait. f.	heartleaf twayblade	7	7 H	0.1	
GRWP.17	32 Lycopodium annotinum L.	stiff clubmoss		Н	5	
GRWP.17	28 Maianthemum canadense Desf.	Canada beadruby		7 Н	0.1	

t Code	PId Scientific Name	Common Name	Stratum S Stratum R	eal C	DBH
VP.17	7 Orthilia secunda (L.) House	sidebells wintergreen	7 H	0.1	
/P.17	21 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10	
P.17	5 Trientalis borealis Raf.	American starflower	7 H	0.1	
/P.17	3 Hylocomium splendens (Hedw.) Schimp. in B.	splendid feather moss	8 N	5	
/P.17	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	55	
/P.17	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	5	
/P.17	8 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem	Saskatoon serviceberry	4 S1	0.1	
/P.17	11 Sorbus scopulina Greene	Greene mountainash	S1	0.1	
VP.17	12 Ledum groenlandicum Oeder	bog Labradortea	5 S2	10	
VP.17	1 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 \$2	0.1	
VP.17	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	5	
VP.17	2 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	,T2	50 2	20 cm
VP.17	3 Betula neoalaskana Sarg.	Alaska paper birch	T2		16 cm
VP.17	1 Picea glauca (Moench) Voss	white spruce	2 T2		20 cm
VP.17	7 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	Т3	5	-0 0111
VP.18	38 Cetraria Ach.	cetraria lichen	10 E	0.1	
VP.18	39 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1	
VP.18	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
VP.18	36 Usnea Dill. ex Adans.	beard lichen	E	0.1	
VP.18	31 Actaea rubra (Ait.) Willd.	red baneberry	7H	0.1	
VP.18	27 Aralia nudicaulis L.	wild sarsaparilla	7 H	1	
VP.18	30 Athyrium filix-femina (L.) Roth		7H		
VP.18		common ladyfern		0.1	
VP.18	24 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7H	5	
	20 Cornus canadensis L.	bunchberry dogwood	7H	2	
VP.18	4 Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	0.1	
VP.18	3 Equisetum sylvaticum L.	woodland horsetail	7 H	2	
VP.18	6 Galium triflorum Michx.	fragrant bedstraw	7H	0.1	
/P.18	23 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	10	
VP.18	28 Maianthemum canadense Desf.	Canada beadruby	7 H	0.1	
/P.18	8 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	1	
VP.18	5 Mitella nuda L.	naked miterwort	7 H	1	
/P.18	25 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	0.1	
/P.18	21 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10	
/P.18	7 Smilacina racemosa (L.) Desf.	= Maianthemum racemosum ssp. race	7 H	0.1	
VP.18	22 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1	
/P.18	18 Tiarella trifoliata L.	threeleaf foamflower	7 H	0.1	
/P.18	2 Trientalis borealis Raf.	American starflower	7 H	0.1	
/P.18	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	15	
/P.18	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	5	
/P.18	11 Alnus tenuifolia Nutt.	= Alnus incana ssp. tenuifolia	S1	0.1	
VP.18	9 Rubus parviflorus Nutt.	thimbleberry	S1	2	
VP.18	12 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1	
VP.18	15 Oplopanax horridus Miq.	devilsclub	S2	30	
VP.18	13 Ribes lacustre (Pers.) Poir.	prickly currant	5 S2	0.1	
VP.18	2 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	T2	25 2	20 cm
/P.18	3 Betula neoalaskana Sarg.	Alaska paper birch	T2	5	16 cm
/P.18	1 Picea glauca (Moench) Voss	white spruce	2 T2	45 2	20 cm
/P.18	1 Populus tremuloides Michx.	quaking aspen	2 T2	5	
/P.18	6 Populus tremuloides Michx.	quaking aspen	ТЗ	0.1	
/P.19	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
/P.19	38 Parmelia sulcata Taylor	shield lichen	10 E	0.1	
VP.19	39 Physcia (Schreber) Michaux	rosette lichen	10 E	0.1	
/P.19	36 Usnea Dill. ex Adans.	beard lichen	E	0.1	
/P.19	14 Achillea millefolium L.	common yarrow	7 H	0.1	
/P.19	27 Arnica cordifolia Hook.	heartleaf arnica	7 H	2	
/P.19	7 Aster ciliolatus Lindl.		7 H	3	
/P.19		Lindley's aster			
/P.19	8 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	1	
VP.19	30 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	1	
WF.19	24 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	25	

Plot Code	Pld Scientific Name	Common Name	Stratum S Stratum Re	al C DBH
GRWP.19	29 Epilobium angustifolium L.	fireweed	7 H	2
GRWP.19	10 Fragaria virginiana Duchesne	Virginia strawberry	7 H	0.1
GRWP.19	12 Galium boreale L.	northern bedstraw	7 H	0.1
GRWP.19	9 Galium triflorum Michx.	fragrant bedstraw	7 H	0.1
GRWP.19	23 Gymnocarpium dryopteris (L.) Newman	western oakfern	. 7H	5
GRWP.19	2 Heracleum lanatum Michx.	= Heracleum maximum	7 H	5
GRWP.19	4 Lathyrus ochroleucus Hook.	cream peavine	7 H	2
GRWP.19	19 Linnaea borealis L.	twinflower	7 H	5
GRWP.19	11 Lycopodium annotinum L.	stiff clubmoss	7 H	0.1
GRWP.19	28 Maianthemum canadense Desf.	Canada beadruby	7 H	0.1
GRWP.19	3 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	5
GRWP.19	6 Mitella nuda L.	naked miterwort	7 H	0.1
GRWP.19	25 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	0.1
GRWP.19	13 Pyrola elliptica Nutt.	waxflower shinleaf	7 H	0.1
	ļ - ļ - ī		7 H	1
GRWP.19	21 Rubus pedatus Sm.	strawberryleaf raspberry		
GRWP.19	26 Rubus pubescens Raf.	dwarf red blackberry	7 H	0.1
GRWP.19	22 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1
GRWP.19	5 Thalictrum venulosum Trel.	veiny meadowrue	7 H	15
GRWP.19	18 Tiarella trifoliata L.	threeleaf foamflower	7 H	0.1
GRWP.19	1 Viburnum edule (Michx.) Raf.	mooseberry viburnum	4 S1	1
GRWP.19	12 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	2
GRWP.19	13 Rosa acicularis Lindl.	prickly rose	5 S2	0.1
GRWP.19	14 Sambucus pubens Michx.	= Sambucus racemosa var. racemosa	S2	0.1
GRWP.19	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	0.1
GRWP.19	1 Picea glauca (Moench) Voss	white spruce	2 T2	35 20 cm
GRWP.19	6 Populus tremuloides Michx.	quaking aspen	2 T2	15 22 cm
GRWP.19	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	0.1
GRWP.2	30 Bryonia L.	bryony	10 E	0.1
GRWP.2	33 Cetraria Ach.	cetraria lichen	10 E	0.1
GRWP.2	34 Evernia Ach.	ring lichen	10 E	0.1
GRWP.2	28 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
GRWP.2	29 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
GRWP.2	23 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1
GRWP.2	20 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	0.1
GRWP.2	15 Cornus canadensis L.		7 H	5
		bunchberry dogwood		
GRWP.2	18 Epilobium angustifolium L.	fireweed	7 H	0.1
GRWP.2	19 Equisetum sylvaticum L.	woodland horsetail	7 H	0.1
GRWP.2	24 Hieracium albiflorum Hook.	white hawkweed	7 H	0.1
GRWP.2	16 Lycopodium annotinum L.	stiff clubmoss	7 H	5
GRWP.2	14 Orthilia secunda (L.) House	sidebells wintergreen	7 H	0.1
GRWP.2	13 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	2
GRWP.2	17 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1
GRWP.2	21 Trientalis borealis Raf.	American starflower	7 H	0.1
GRWP.2	32 Cladina mitis (Sandst.) Hustich	reindeer lichen	8 N	0.1
GRWP.2	31 Cladonia P. Browne	cup lichen	8 N	0.1
GRWP.2	26 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	10
GRWP.2	25 Polytrichum commune Hedw.	polytrichum moss	8 N	5
GRWP.2	27 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	35
GRWP.2	6 Prunus pensylvanica L. f.	pin cherry	4 S1	0.1
GRWP.2	5 Sambucus pubens Michx.	= Sambucus racemosa var. racemosa	4 S1	0.1
GRWP.2	11 Sorbus scopulina Greene	Greene mountainash	4 S1	0.1
GRWP.2	12 Betula pumila L.	swamp birch	5 S2	0.1
GRWP.2	10 Ledum groenlandicum Oeder	bog Labradortea	5 S2	15
GRWP.2	9 Vaccinium cespitosum Michx.	dwarf blueberry	5 S2	0.1
GRWP.2	7 Vaccinium membranaceum Dougl, ex Torr.			
GRWP.2		blue huckleberry	5 S2	0.1
GRWP.2	8 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	15
	35 Vaccinium vitis-idaea L.	lingonberry	6 S3	15
GRWP.2	36 Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2	75 13 cm
GRWP.2	2 Abies lasiocarpa (Hook.) Nutt.	balsam fir	3 T3	2
GRWP.2	4 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	0.1

ot Code	Plc Scientific Name	Common Name	Stratum S Stratum	Real C DBH
WP.2	1 Picea mariana (P. Mill.) B.S.P.	black spruce	3 T3	0.1
WP.20	27 Aralia nudicaulis L.	wild sarsaparilla	7 H	25
NP.20	31 Aster ciliolatus Lindl.	Lindley's aster	7 H	1
WP.20	24 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	10
WP.20	20 Cornus canadensis L.	bunchberry dogwood	7 H	1
WP.20	29 Epilobium angustifolium L.	fireweed	7 H	10
WP.20	30 Hieracium umbellatum L.	narrowleaf hawkweed	7 H	0.1
WP.20	5 Lathyrus ochroleucus Hook.	cream peavine	7.H	0.1
WP.20	19 Linnaea borealis L.	twinflower	7 H	10
WP.20	32 Lycopodium annotinum L.	stiff clubmoss	Н	0.1
WP.20	23 Lycopodium obscurum L.	rare clubmoss	7'H	0.1
WP.20	28 Melampyrum lineare Desr.	narrowleaf cowwheat	7.H	0.1
WP.20	25 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7H	2
WP.20	21 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	15
WP.20	26 Rubus pubescens Raf.	dwarf red blackberry	7 H	. 1
WP.20	22 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	
WP.20	18 Trientalis borealis Raf.	American starflower	7 H	. 1
			- 1	0.1
WP.20	4 Viola palustris L.	marsh violet	7 H	0.1
WP.20	3 Alnus tenuifolia Nutt.	= Alnus incana ssp. tenuifolia	4 S1	10
WP.20	8 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roer		481	. 1
WP.20	11 Prunus pensylvanica L. f.	pin cherry	S1	2
WP.20	9 Salix discolor Muhl.	pussy willow	S1	2
WP.20	12 Ribes hirtellum Michx.	hairystem gooseberry	5 S2	0.1
WP.20	15 Ribes lacustre (Pers.) Poir.	prickly currant	S2	0.1
WP.20	13 Rosa acicularis Lindl.	prickly rose	5 S2	5
WP.20	14 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	S2	0.1
WP.20	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	5
WP.20	10 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5,S2	0.1
WP.20	3 Betula neoalaskana Sarg.	Alaska paper birch	T2	35 15 cm
WP.20	2 Populus balsamifera L.	balsam poplar	T2	5 16 cm
WP.20	6 Populus tremuloides Michx.	quaking aspen	2 T2	10.18 cm
WP.20	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	0.1
WP.20	7 Betula neoalaskana Sarg.	Alaska paper birch	Т3	3
WP.20	1 Picea glauca (Moench) Voss	white spruce	3 T3	10
WP.20	1 Populus balsamifera L.	balsam poplar	3 T3	0.1
WP.20	2 Populus tremuloides Michx.		T3	2
WP.21		quaking aspen	7 H	1
WP.21	10 Achillea millefolium L.	common yarrow		0.1
ļ	7 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	20
WP.21	6 Cornus canadensis L.	bunchberry dogwood	7 H	5
WP.21	16 Epilobium angustifolium L.	fireweed	7 H	1
WP.21	8 Equisetum sylvaticum L.	woodland horsetail	7 H	2
WP.21	15 Galium boreale L.	northern bedstraw	7 H	0.1
WP.21	9 Hieracium umbellatum L.	narrowleaf hawkweed	7 H	0.1
WP.21	11 Lathyrus ochroleucus Hook.	cream peavine	7 H	2
WP.21	12 Maianthemum canadense Desf.	Canada beadruby	7 H	2
WP.21	17 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1
WP.21	13 Rubus pubescens Raf.	dwarf red blackberry	7 H	1.
WP.21	14 Viola palustris L.	marsh violet	7 H	0.1
WP.21	3 Rubus parviflorus Nutt.	thimbleberry	4 S1	75
WP.21	4 Rosa acicularis Lindl.	prickly rose	5 S2	0.1
WP.21	5 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	10
WP.21	1 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	0.1
WP.21	2 Populus tremuloides Michx.	quaking aspen	3 T3	0.1
WP.22	12 Aralia nudicaulis L.	wild sarsaparilla	7 H	10
WP.22	14 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1
WP.22			7 H	50
WP.22	7 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	
-	6 Cornus canadensis L.	bunchberry dogwood		2
	LUIEDIODIUM apquetitolium I	fireweed	7 H	1.
WP.22 WP.22	10 Epilobium angustifolium L. 13 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	2

Plot Code	Pld Scientific Name	Common Name	Stratum S Stratum	Real Co	DBH
GRWP.22	16 Lycopodium obscurum L.	rare clubmoss	7 H	0.1	
GRWP.22	8 Maianthemum canadense var. interius Fern.	= Maianthemum canadense	7 H	0.1	
GRWP.22	11 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1	
RWP.22	15 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	0.1	
RWP.22	9 Rubus pubescens Raf.	dwarf red blackberry	7 H	0.1	
RWP.22	17 Trientalis borealis Raf.	American starflower	7 H	0.1	
GRWP.22	2 Alnus tenuifolia Nutt.	= Alnus incana ssp. tenuifolia	4 S1	10	
RWP.22	3 Rubus idaeus L.	American red raspberry	5 S2	0.1	
3RWP.22	5 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	0.1	
3RWP.22	4 Viburnum edule (Michx.) Raf.	mooseberry viburnum	S2	0.1	
RWP.22	1 Picea glauca (Moench) Voss	white spruce	3 T3	0.1	
	+ +	horsehair lichen	10 E	0.1	
RWP.23	37 Bryoria Brodo & D. Hawksw.		10 E	0.1	
RWP.23	38 Cetraria Ach.	cetraria lichen			
RWP.23	39 Cetraria pinastri (Scop.) Gray	= Vulpicida pinastri	10 E	0.1	
GRWP.23	35 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
GRWP.23	36 Usnea Dill. ex Adans.	beard lichen	E	0.1	
GRWP.23	27 Aralia nudicaulis L.	wild sarsaparilla	7 H	20	
GRWP.23	30 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	5	
GRWP.23	24 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	10	
GRWP.23	20 Cornus canadensis L.	bunchberry dogwood	7 H	10	
GRWP.23	29 Epilobium angustifolium L.	fireweed	7 H	2	
GRWP.23	23 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	5	
GRWP.23	7 Hieracium umbellatum L.	narrowleaf hawkweed	7 H	0.1	
GRWP.23	4 Lathyrus ochroleucus Hook.	cream peavine	7 H	0.1	
GRWP.23	19 Linnaea borealis L.	twinflower	7 H	0.1	
GRWP.23	32 Lycopodium annotinum L.	stiff clubmoss	Н	0.1	
3RWP.23	3 Lycopodium complanatum L.	groundcedar	7 H	0.1	
GRWP.23	2 Lycopodium obscurum L.	rare clubmoss	7 H	0.1	
GRWP.23	28 Maianthemum canadense Desf.		7 H	1	
		Canada beadruby			
GRWP.23	6 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1	
GRWP.23	25 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	2	
GRWP.23	21 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	5	
GRWP.23	26 Rubus pubescens Raf.	dwarf red blackberry	7 H	0.1	
GRWP.23	31 Smilacina racemosa (L.) Desf.	= Maianthemum racemosum ssp. race	7 H	0.1	
GRWP.23	22 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1	
GRWP.23	18 Tiarella trifoliata L.	threeleaf foamflower	7 H	10	
GRWP.23	5 Viola palustris L.	marsh violet	7 H	0.1	
GRWP.23	8 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	10	
GRWP.23	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	30	
GRWP.23	9 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	10	
GRWP.23	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	0.1	
GRWP.23	1 Rubus parviflorus Nutt.	thimbleberry	4 S1	5	
GRWP.23	9 Salix discolor Muhl.	pussy willow	S1	2	
GRWP.23	11 Sorbus scopulina Greene	Greene mountainash	S1	0.1	
GRWP.23	10 Viburnum edule (Michx.) Raf.	mooseberry viburnum	4 51	0.1	
GRWP.23	15 Ribes lacustre (Pers.) Poir.	prickly currant	S2		
GRWP.23	12 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry		0.1	
GRWP.23			5 S2	10	
	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	40	
GRWP.23	3 Betula neoalaskana Sarg.	Alaska paper birch	T2		15 cm
GRWP.23	1 Picea glauca (Moench) Voss	white spruce	2 T2		15 cm
GRWP.23	2 Populus tremuloides Michx.	quaking aspen	T2		12 cm
GRWP.23	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	15	
GRWP.23	7 Betula neoalaskana Sarg.	Alaska paper birch	Т3	0.1	
GRWP.23	6 Picea glauca (Moench) Voss	white spruce	Т3	0.1	
GRWP.23	6 Populus tremuloides Michx.	quaking aspen	Т3	0.1	
GRWP.24	31 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
GRWP.24	32 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1	
GRWP.24	33 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
GRWP.24	34 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
GRWP.24	11 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1	

ot Code	Pld Scientific Name	Common Name	Stratum S Stratum F	Real C DBH
NP.24	12 Cornus canadensis L.	bunchberry dogwood	7 H	20
NP.24	13 Dryopteris assimilis S. Walker	= Dryopteris expansa	7'H	0.1
NP.24	14 Equisetum sylvaticum L.	woodland horsetail	7 H	0.1
WP.24	15 Gaultheria hispidula (L.) Muhl. ex Bigelow	creeping snowberry	7.H	0.1
WP.24	16 Linnaea borealis L.	twinflower	7,H	0.1
WP.24	17 Lycopodium annotinum L.	stiff clubmoss	7 H	0.1
WP.24	18 Rubus chamaemorus L.	cloudberry	7 H	1
NP.24	35 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	25
WP.24	19 Smilacina trifolia (L.) Desf.	= Maianthemum trifolium	7 H	0.1
WP.24	20 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1
WP.24	21 Trientalis borealis Raf.	American starflower	7 H	2
WP.24	28 Cladina rangiferina (L.) Nyl.	greygreen reindeer lichen	8 N	0.1
WP.24	23 Dicranum fuscescens Turn.	dicranum moss	8 N	1
WP.24	29 Dicranum undulatum Brid.	undulate dicranum moss	8 N	0.1
WP.24	30 Icmadophila ericetorum (L.) Zahlbr.	peppermint drop lichen	8 N	0.1
WP.24	24 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	50
WP.24	25 Polytrichum commune Hedw.	polytrichum moss	8 N	5
WP.24	26 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	20
WP.24	27 Sphagnum L.	sphagnum	8 N	0.1
WP.24	6 Salix discolor Muhl.		481	
WP.24	7 Sorbus scopulina Greene	pussy willow		0.1
	· · · · · · · · · · · · · · · · · · ·	Greene mountainash	4 S1	0.1
WP.24	8 Ledum groenlandicum Oeder	bog Labradortea	5 S2	0.1
WP.24	9 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1
WP.24	10 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	1
WP.24	22 Vaccinium vitis-idaea L.	lingonberry	6 S3	1
WP.24	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	5 18 cm
WP.24	4 Betula neoalaskana Sarg.	Alaska paper birch	T2	5 14 cm
WP.24	1 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	75 16 cm
WP.24	3 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	5
WP.25	31 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
WP.25	32 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
WP.25	33 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
WP.25	34 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
WP.25	11 Aster ciliolatus Lindl.	Lindley's aster	7 H	0.1
WP.25	12 Cornus canadensis L.	bunchberry dogwood	7 H	5
WP.25	13 Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	0.1
WP.25	15 Gaultheria hispidula (L.) Muhl. ex Bigelow	creeping snowberry	7 H	5
WP.25	17 Lycopodium annotinum L.	stiff clubmoss	7 H	0.1
WP.25	1 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	5
WP.25	19 Rubus pubescens Raf.	dwarf red blackberry	7 H	5
WP.25	20 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1
WP.25	28 Cladonia P. Browne	cup lichen	8 N	0.1
WP.25	23 Dicranum fuscescens Turn.	dicranum moss	8 N	1
WP.25	29 Dicranum undulatum Brid.	undulate dicranum moss	8 N	0.1
WP.25	25 Hylocomium splendens (Hedw.) Schimp. in B.		8 N	15
WP.25	2 Peltigera aphthosa (L.) Willd.	felt lichen	8 N	0.1
WP.25	24 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	30
WP.25			8 N	20
WP.25	26 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	4 51	0.1
-	7 Sorbus scopulina Greene	Greene mountainash		
WP.25	8 Ledum groenlandicum Oeder	bog Labradortea	5 S2	0.1
WP.25	9 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1
WP.25	10 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	1
WP.25	22 Vaccinium vitis-idaea L.	lingonberry	6 S3	0.1
WP.25	5 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	3 18 cm
WP.25	4 Betula neoalaskana Sarg.	Alaska paper birch	T2	2.14 cm
WP.25	1 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	80 16 cm
WP.25	2 Pinus contorta Dougl. ex Loud.	lodgepole pine	T2	2
WP.25	3 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	0.1
WP.26	23 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
WP.26	24 Cetraria Ach.	cetraria lichen	10 E	0.1

Plot Code	Plo	Scientific Name	Common Name	Stratum S	StratumRe	al C	DBH
GRWP.26	25	Evernia mesomorpha Nyl.	ring lichen		E	0.1	
GRWP.26	26	Hypogymnia physodes (L.) Nyl.	tube lichen	10	E	0.1	
GRWP.26	27	Usnea Dill. ex Adans.	beard lichen	10	E	0.1	
GRWP.26	10	Carex aquatilis Wahlenb.	water sedge	7	Н	5	
GRWP.26	12	Carex deweyana Schwein.	Dewey sedge	7	Н	2	
GRWP.26	11	Carex pauciflora Lightf.	star sedge	7	Н	10	
GRWP.26	13	Carex paupercula Michx.	= Carex magellanica ssp. magellanica	7	Н	2	
GRWP.26	15	Eriophorum brachyantherum Trautv. & C.A. M	northland cottonsedge	7	Н	0.1	
GRWP.26	14	Eriophorum vaginatum L.	tussock cottongrass	7	Н	0.1	
GRWP.26	16	Gaultheria hispidula (L.) Muhl. ex Bigelow	creeping snowberry	7	Н	3	
GRWP.26	17	Rubus chamaemorus L.	cloudberry	7	Н	30	
GRWP.26	18	Smilacina trifolia (L.) Desf.	= Maianthemum trifolium	7	Н	1	
GRWP.26			small cranberry	7	Н	2	
GRWP.26		Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8	N	5	
GRWP.26			sphagnum	8	N	75	
GRWP.26		1 1 - 1	leatherleaf		S2	25	
GRWP.26		Ledum groenlandicum Oeder	bog Labradortea		S2	45	
GRWP.26		Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry		S2	0.1	
GRWP.26		Vaccinium myrtilloides Michx.	velvetleaf huckleberry		S2	5	
GRWP.26	1	Vaccinium vitis-idaea L.	lingonberry		S3	2	
GRWP.26	+	Picea mariana (P. Mill.) B.S.P.	black spruce		T2		10 cm
GRWP.26					T3	0.1	10 0111
	1	Abies lasiocarpa (Hook.) Nutt.	subalpine fir	ļ J			
GRWP.26		Betula neoalaskana Sarg.	Alaska paper birch		T3	0.1	
GRWP.26		Picea mariana (P. Mill.) B.S.P.	black spruce			5	
GRWP.26		Pinus contorta Dougl. ex Loud.	lodgepole pine		T3	0.1	
GRWP.27	-1	Calamagrostis canadensis (Michx.) Beauv.	bluejoint		H	2	
GRWP.27		Carex deweyana Schwein.	Dewey sedge		Н	20	
GRWP.27	+	Carex pauciflora Lightf.	star sedge	+	Н	0.1	
GRWP.27		Carex paupercula Michx.	= Carex magellanica ssp. magellanica		H	5	
GRWP.27		Eriophorum vaginatum L.	tussock cottongrass		Н	0.1	
GRWP.27	4	Juncus filiformis L.	thread rush		Н	20	
GRWP.27	17	Rubus chamaemorus L.	cloudberry	7	Н	5	
GRWP.27	18	Smilacina trifolia (L.) Desf.	= Maianthemum trifolium	7	Н	2	
GRWP.27	3	Campylium stellatum (Hedw.) C. Jens.	star campylium moss	8	N	15	
GRWP.27	27	Sphagnum L.	sphagnum	8	N	45	
GRWP.27	1	Ledum groenlandicum Oeder	bog Labradortea	5	S2	5	
GRWP.27	9	Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5	S2	5	
GRWP.27	20	Vaccinium vitis-idaea L.	lingonberry	6	S3	2	
GRWP.28	23	Bryoria Brodo & D. Hawksw.	horsehair lichen	.10	E	0.1	
GRWP.28	24	Cetraria Ach.	cetraria lichen	10	E	0.1	
GRWP.28	25	Evernia mesomorpha Nyl.	ring lichen		E	0.1	
GRWP.28	26	6 Hypogymnia physodes (L.) Nyl.	tube lichen	10	E	0.1	
GRWP.28	27	7 Usnea Dill. ex Adans.	beard lichen	10	E	0.1	
GRWP.28	12	2 Carex deweyana Schwein.	Dewey sedge		Н	15	
GRWP.28		1 Carex pauciflora Lightf.	star sedge		Н	15	
GRWP.28	+ -	3 Carex paupercula Michx.	= Carex magellanica ssp. magellanica		Н	5	
GRWP.28		4 Eriophorum vaginatum L.	tussock cottongrass		Н	0.1	
GRWP.28		6 Gaultheria hispidula (L.) Muhl. ex Bigelow	creeping snowberry		Н	1	
GRWP.28		7 Rubus chamaemorus L.	cloudberry		Н	30	
GRWP.28		8 Smilacina trifolia (L.) Desf.	= Maianthemum trifolium		H	2	
GRWP.28		1 Aulacomnium palustre (Hedw.) Schwaegr.	aulacomnium moss		N	1	
GRWP.28							
GRWP.28		1 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss		N	10	
	- :	2 Sphagnum L.	sphagnum		N	30	
GRWP.28	1	2 Sphagnum magellanicum Brid.	Magellan's sphagnum	8	N	20	
GRWP.28	-	7 Ledum groenlandicum Oeder	bog Labradortea		S2	30	
GRWP.28		8 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry		S2	0.1	
GRWP.28	-	9 Vaccinium myrtilloides Michx.	velvetleaf huckleberry		S2	20	
GRWP.28		0Vaccinium vitis-idaea L.	lingonberry	. 6	S3	10	
GRWP.28		1 Picea mariana (P. Mill.) B.S.P.	black spruce	2	T2	25	8 cm
GRWP.28		3 Picea mariana (P. Mill.) B.S.P.	black spruce		T3	5	

t Code	PIQ Scientific Name	Common Name	Stratum S Stratum F	Real C DBI
VP.29	26 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
/P.29	27 Parmelia sulcata Taylor	shield lichen	10 E	0.1
/P.29	11 Achillea millefolium L.	common yarrow	7 [*] H	0.1
/P.29	12 Actaea rubra (Ait.) Willd.	red baneberry	7.H	0.1
/P.29	13 Aster ciliolatus Lindl.	Lindley's aster	7 H	0.1
/P.29	21 Aster puniceus L.	purplestem aster	7 H	0.1
/P.29	14 Athyrium filix-femina (L.) Roth	common ladyfern	7.H	20
/P.29	25 Bromus ciliatus L.	fringed brome	7 H	0.1
VP.29	15 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	60
VP.29	23 Carex aenea Fern.	bronze sedge	7 H	0.1
VP.29	16 Dryopteris carthusiana (Vill.) H.P. Fuchs	spinulose woodfern	7 H	0.1
VP.29	17 Epilobium angustifolium L.	fireweed	7 H	0.1
VP.29	18 Equisetum sylvaticum L.	woodland horsetail	7 H	5
VP.29	19 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	15
VP.29	22 Heracleum lanatum Michx.	= Heracleum maximum	7 H	5
VP.29	20 Hieracium umbellatum L.	narrowleaf hawkweed	7 H	0.1
VP.29	24 Urtica dioica L.	stinging nettle	7 H	0.1
VP.29	2 Alnus tenuifolia Nutt.	= Alnus incana ssp. tenuifolia	4.51	5.
VP.29	4 Salix bebbiana Sarg.	Bebb willow	4/\$1	0.1
VP.29	3 Sambucus pubens Michx.	= Sambucus racemosa var. racemosa	S1	5
VP.29	5 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1
VP.29	10 Oplopanax horridus Miq.	devilsclub	5 S2	1
VP.29	6 Ribes hirtellum Michx.	hairystem gooseberry	S2	0.1
VP.29	7 Rubus idaeus L.	American red raspberry	5 S2	25
VP.29	9 Salix arbusculoides Anderss.	littletree willow	S2	0.1
VP.29				
	1 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	5 10 cm
VP.3	30 Bryonia L.	bryony	10 E	0.1
VP.3	33 Cetraria Ach.	cetraria lichen	10 E	0.1
VP.3	34 Evernia Ach.	ring lichen	10 E	0.1
VP.3	28 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
VP.3	29 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
VP.3	23 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1
VP.3	1 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1
NP.3	20 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	0.1
VP.3	15 Cornus canadensis L.	bunchberry dogwood	7 H	20
NP.3	2 Dryopteris carthusiana (Vill.) H.P. Fuchs	spinulose woodfern	Н	0.1
NP.3	18 Epilobium angustifolium L.	fireweed	7 H	0.1
VP.3	19 Equisetum sylvaticum L.	woodland horsetail	7 H	0.1
VP.3	24 Hieracium albiflorum Hook.	white hawkweed	7 H	0.1
VP.3	16 Lycopodium annotinum L.	stiff clubmoss	7 H	5
NP.3	13 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	2
NP.3	17 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1
NP.3	26 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	15
NP.3	25 Polytrichum commune Hedw.	polytrichum moss	8 N	5
NP.3	27 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	30
VP.3	5 Sambucus pubens Michx.	= Sambucus racemosa var. racemosa	4 S1	0.1
VP.3	11 Sorbus scopulina Greene	Greene mountainash	4 S1	0.1
NP.3	10 Ledum groenlandicum Oeder	bog Labradortea	5 S2	30
WP.3	7 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1
NP.3	8 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	5
NP.3	35 Vaccinium vitis-idaea L.	lingonberry	6 S3	0.1
NP.3	36 Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2	75 13 cm
NP.3	2 Abies lasiocarpa (Hook.) Nutt.	balsam fir	3 T3	0.1
NP.3	4 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	0.1
VP.3	1 Picea mariana (P. Mill.) B.S.P.	black spruce	3 T3	2
VP.30			10 E	0.1
VP.30	27 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
	28 Parmelia sulcata Taylor	shield lichen		5
VP.30	16 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	
VP.30	18 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	70

Plot Code	Pld Scientific Name	Common Name	Stratum SStratum	Real C DBH
GRWP.30	22 Equisetum sylvaticum L.	woodland horsetail	7 H	10
GRWP.30	23 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	15
GRWP.30	30 Heracleum lanatum Michx.	= Heracleum maximum	7 H	0.1
GRWP.30	29 Mertensia paniculata (Ait.) G. Don	tali bluebells	7 H	0.1
GRWP.30	26 Urtica dioica L.	stinging nettle	7 H	0.1
GRWP.30	4 Sambucus pubens Michx.	= Sambucus racemosa var. racemosa	4 S1	0.1
GRWP.30	9 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1
GRWP.30	11 Rubus idaeus L.	American red raspberry	5 S2	25
GRWP.31	11 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
GRWP.31	25 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
GRWP.31	12 Parmelia sulcata Taylor	shield lichen	10 E	0.1
GRWP.31	24 Physcia (Schreber) Michaux	rosette lichen	10 E	0.1
GRWP.31	23 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
GRWP.31	18 Actaea rubra (Ait.) Willd.	red baneberry	7 H	0.1
GRWP.31	19 Aster ciliolatus Lindl.	Lindley's aster	Н	0.1
GRWP.31	4 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	5
GRWP.31	5 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	70
GRWP.31	20 Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	0.1
GRWP.31	6 Epilobium angustifolium L.	fireweed	7 H	0.1
GRWP.31	7 Equisetum sylvaticum L.	woodland horsetail	7 H	10
GRWP.31	8 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	15
GRWP.31	13 Heracleum lanatum Michx.	= Heracleum maximum	7 H	3
GRWP.31	22 Thalictrum venulosum Trel.	veiny meadowrue	7 H	0.1
GRWP.31	10 Urtica dioica L.	stinging nettle	7 H	0.1
		= Alnus incana ssp. tenuifolia	4 S1	5
GRWP.31	1 Alnus tenuifolia Nutt.	<u> </u>	481	
GRWP.31	15 Sorbus scopulina Greene	Greene mountainash	5 S2	15 3
GRWP.31	2 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle		
GRWP.31	17 Ribes hirtellum Michx.	hairystem gooseberry	5 S2	0.1
GRWP.31	3 Rubus idaeus L.	American red raspberry	5 S2	10
GRWP.31	16 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	2
GRWP.31	14 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	15 13 cm
GRWP.32	23 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
GRWP.32	18 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
GRWP.32	19 Parmelia sulcata Taylor	shield lichen	10 E	0.1
GRWP.32	22 Physcia (Schreber) Michaux	rosette lichen	10 E	0.1
GRWP.32	21 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
GRWP.32	9 Actaea rubra (Ait.) Willd.	red baneberry	7 H	0.1
GRWP.32	1 Aster ciliolatus Lindl.	Lindley's aster	7 H	0.1
GRWP.32	10 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	5
GRWP.32	11 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	70
GRWP.32	12 Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	0.1
GRWP.32	13 Epilobium angustifolium L.	fireweed	7 H	0.1
GRWP.32	14 Equisetum sylvaticum L.	woodland horsetail	7 H	10
GRWP.32	15 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	15
GRWP.32	16 Heracleum lanatum Michx.	= Heracleum maximum	7 H	3
GRWP.32	20 Thalictrum venulosum Trel.	veiny meadowrue	7 H	0.1
GRWP.32	17 Urtica dioica L.	stinging nettle	7 H	0.1
GRWP.32	3 Alnus tenuifolia Nutt.	= Alnus incana ssp. tenuifolia	4 S1	15
GRWP.32	4 Sorbus scopulina Greene	Greene mountainash	4 S1	5
GRWP.32	5 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1
GRWP.32	24 Oplopanax horridus Miq.	devilsclub	5 S2	5
GRWP.32	6 Ribes hirtellum Michx.	hairystem gooseberry	5 S2	1
GRWP.32	7 Rubus idaeus L.	American red raspberry	5 S2	30
GRWP.32	8 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	1
GRWP.32	2 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	50 15 cm
GRWP.33	5 Achillea sibirica Ledeb.	Siberian yarrow	H	0.1
GRWP.33	10 Agrostis scabra Willd.	rough bentgrass	7 H	0.1
GRWP.33	13 Beckmannia syzigachne (Steud.) Fern.			
GRWP.33	6 Bidens cernua L.	American sloughgrass nodding beggartick	7 H	0.1
	O Didella Celliua L.	mouding beggartick	7 H	0.1

ot Code	PIC Scientific Name	Common Name	Stratum S Stratum F	leal C	DB
WP.33	4 Caltha leptosepala DC.	white marshmarigold	7H	0.1	
WP.33	11 Carex diandra Schrank	lesser panicled sedge	7·H	0.1	
NP.33	9 Cerastium nutans Raf.	nodding chickweed	7 ['] H	0.1	
NP.33	7 Epilobium glandulosum Lehm.	= Epilobium ciliatum ssp. glandulosum	7 H	0.1	
NP.33	12 Impatiens noli-tangere L.	western touchmenot	7:H	0.1	
WP.33	3 Potentilla palustris (L.) Scop.	= Comarum palustre	7.H	0.1	
WP.33	8 Ranunculus gmelinii DC.	Gmelin's buttercup	7 H	0.1	
WP.33	1 Scirpus microcarpus J.& K. Presl	panicled bulrush	7 _H	50	
WP.34	27 Actaea rubra (Ait.) Willd.	red baneberry	7 H	2	
NP.34	31 Aralia nudicaulis L.	wild sarsaparilla	7 H	20	
NP.34	40 Arnica cordifolia Hook.	heartleaf arnica	7 H	0.1	
NP.34	10 Aster ciliolatus Lindl.	Lindley's aster	7 H	2	
WP.34	32 Aster conspicuus Lindl.	showy aster	7.H	1	
WP.34	30 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	30	
WP.34	14 Epilobium angustifolium L.	fireweed	7:H	2	
NP.34	33 Galium boreale L.	northern bedstraw	7 H	0.1	
WP.34	16 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	2	
NP.34	17 Heracleum lanatum Michx.	= Heracleum maximum	7 H	1	
NP.34	34 Lathyrus ochroleucus Hook.	cream peavine	7 ['] H	0.1	
NP.34	35 Maianthemum canadense Desf.	Canada beadruby	7.H	2	
VP.34	36 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1	
VP.34	38 Smilacina racemosa (L.) Desf.	= Maianthemum racemosum ssp. race	7 H	1	
VP.34	18 Thalictrum venulosum Trel.	veiny meadowrue	7 H	- '. 5	
VP.34	39 Vicia americana Muhl. ex Willd.	American vetch	7 H	0.1	
NP.34	2 Alnus crispa (Ait.) Pursh	= Alnus viridis ssp. crispa	4 S1	50	
VP.34	4 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	5	
VP.34	6 Ribes hirtellum Michx.	hairystem gooseberry	5 S2	0.1	
VP.34	7 Rubus idaeus L.	American red raspberry	5 S2	5.	
NP.34	25 Betula neoalaskana Sarg.	· · · · · · · · · · · · · · · · · · ·	2 T2		10.
NP.34		Alaska paper birch		F	12 c
	1 Populus tremuloides Michx.	quaking aspen	2 T2	80 1	18 0
WP.34	26 Populus tremuloides Michx.	quaking aspen	3 T3	3	
WP.35	34 Caloplaca Th. Fr.	orange lichen	10 E	0.1	
WP.35	33 Physcia (Schreber) Michaux	rosette lichen	10 E	0.1	
WP.35	8 Actaea rubra (Ait.) Willd.	red baneberry	7 H	1	
WP.35	9 Aralia nudicaulis L.	wild sarsaparilla	7 H	20	
NP.35	10 Aster ciliolatus Lindl.	Lindley's aster	7 H	2	
WP.35	11 Aster conspicuus Lindl.	showy aster	7 H	1	
WP.35	15 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1	
WP.35	12 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	50	
WP.35	31 Delphinium glaucum S. Wats.	Sierra larkspur	7 H	0.1	
WP.35	30 Disporum trachycarpum (S. Wats.) Benth. &	roughfruit fairybells	7 H	0.1	
WP.35	13 Epilobium angustifolium L.	fireweed	7 H	0.1	
WP.35	14 Galium boreale L.	northern bedstraw	7 H	1	
WP.35	32 Gentiana amarella L. auct. p.p.	= Gentianella amarella ssp. acuta	7 H	0.1	
WP.35	16 Heracleum lanatum Michx.	= Heracleum maximum	7 _H	0.1	
WP.35	27 Hieracium umbellatum L.	narrowleaf hawkweed	7 H	0.1	
WP.35	17 Lathyrus ochroleucus Hook.	cream peavine	7 H	2	
WP.35	18 Maianthemum canadense Desf.	Canada beadruby	7 H	0.1	
WP.35	19 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	2	
WP.35	28 Rubus pubescens Raf.	dwarf red blackberry	7 H	2	
WP.35	20 Smilacina racemosa (L.) Desf.	= Maianthemum racemosum ssp. race	7 H	1	
WP.35	21 Thalictrum venulosum Trel.	veiny meadowrue	7 H	10	
WP.35	29 Trientalis borealis Raf.	American starflower	7 H	0.1	
WP.35	22 Vicia americana Muhl. ex Willd.	American vetch	7 H	0.1	
WP.35	4 Alnus crispa (Ait.) Pursh	= Alnus viridis ssp. crispa	4 S1	5	
WP.35	25 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem		481	0	
WP.35	5 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	10	
WP.35	6 Ribes hirtellum Michx.	hairystem gooseberry	5 S2	1	
WP.35	26 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	2	
/- m	Lo vibarram edule (MICHA.) Mai.	moodobony vibunidin	2 T2		12 c

Plot Code	Pid		Common Name	Stratum SStratum		DBH
RWP.35	24	Populus balsamifera L.	balsam poplar	2 T2	0.1	
RWP.35	2	Populus tremuloides Michx.	quaking aspen	2 T2	75	18 cm
RWP.36	. 8	Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	0.1	
RWP.36	2	Carex aquatilis Wahlenb.	water sedge	7 H	40	
RWP.36	3	Carex paupercula Michx.	= Carex magellanica ssp. magellanica	7 H	10	
RWP.36	1	Juncus filiformis L.	thread rush	7 H	50	
RWP.36	4	Smilacina trifolia (L.) Desf.	= Maianthemum trifolium	7 H	1	
RWP.36	6	Campylium stellatum (Hedw.) C. Jens.	star campylium moss	8 N	5	
RWP.36	5	Sphagnum L.	sphagnum	8 N	50	
RWP.36	7	Sphagnum magellanicum Brid.	Magellan's sphagnum	8 N	5	
RWP.37	10	Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
RWP.37	12	Cetraria Ach.	cetraria lichen	10 E	0.1	
RWP.37	13	Cetraria pinastri (Scop.) Gray	= Vulpicida pinastri	10 E	0.1	
RWP.37	11	Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
RWP.37	+	Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
RWP.37		Cornus canadensis L.	bunchberry dogwood	7 H	20	
RWP.37		Epilobium angustifolium L.	fireweed	7 H	0.1	
RWP.37	841 14	Equisetum sylvaticum L.	woodland horsetail	7 H	0.1	
RWP.37	1	Linnaea borealis L.	twinflower	7 H	3	
RWP.37		Lycopodium annotinum L.	stiff clubmoss	Н	2	
GRWP.37	+	Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10	ļ
RWP.37		Trientalis borealis Raf.	American starflower	7 H	1	
	1		reindeer lichen	8 N	0.1	·
RWP.37	.1	Cladina mitis (Sandst.) Hustich		8 N	50	
RWP.37	40.00	Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss			
RWP.37	į.	Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N S2	20	
RWP.37		Ledum groenlandicum Oeder	bog Labradortea		3	
RWP.37		Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	S2	2	
RWP.37	and see a	Vaccinium myrtilloides Michx.	velvetleaf huckleberry	S2	10	
GRWP.37		Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2		30 cm
GRWP.37		Betula neoalaskana Sarg.	Alaska paper birch	2 T2	 	14 cm
GRWP.37		Picea mariana (P. Mill.) B.S.P.	black spruce	T2		16 cm
GRWP.37	+	Populus tremuloides Michx.	quaking aspen	T2	+	14 cm
GRWP.37		Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	15	
GRWP.37		Picea mariana (P. Mill.) B.S.P.	black spruce	3 T3	15	
GRWP.38		Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	35	+
GRWP.38	-	Cornus canadensis L.	bunchberry dogwood	7 H	15	
GRWP.38	31	Dryopteris carthusiana (Vill.) H.P. Fuchs	spinulose woodfern	7H	0.1	
GRWP.38	28	Epilobium angustifolium L.	fireweed	7 H	0.1	
GRWP.38	22	Linnaea borealis L.	twinflower	7 H	. 2	2
GRWP.38	24	Lycopodium annotinum L.	stiff clubmoss	7 H	2	2
GRWP.38	23	Maianthemum canadense Desf.	Canada beadruby	7 H	1	2
GRWP.38	32	2 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1	
GRWP.38	26	Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	2	2
GRWP.38	29	Rubus pedatus Sm.	strawberryleaf raspberry	7 H	15	5
GRWP.38	30	Rubus pubescens Raf.	dwarf red blackberry	7 H	1	
GRWP.38	2	1 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1	
GRWP.38	2	5 Trientalis borealis Raf.	American starflower	7 H	0.1	
GRWP.38	10	6 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	10)
GRWP.38	18	Polytrichum commune Hedw.	polytrichum moss	8 N	5	5
GRWP.38		7 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	N		5
GRWP.38		3 Ledum groenlandicum Oeder	bog Labradortea	5 S2	0.1	+
GRWP.38		2 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	S2	1	
GRWP.38		0 Ribes glandulosum Grauer	skunk currant	S2		
GRWP.38		9 Rosa acicularis Lindl.	prickly rose	5 S2	0.1	
GRWP.38		1 Rubus idaeus L.	American red raspberry	5 S2	1	+
GRWP.38		5 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1	+
GRWP.38		4 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	10	+
GRWP.38		7 Vaccinium vitis-idaea L.			0.1	+
GRWP.38		1 Abies lasiocarpa (Hook.) Nutt.	lingonberry	6 S3		+
00. 144110		Thores lasiocarpa (1100k.) Mull.	subalpine fir	2 T2	15	18 cn

ot Code	Pld Scientific Name	Common Name	Stratum SStratum	Real C DBH
WP.38	5 Picea glauca (Moench) Voss	white spruce	2T2	2 18 cm
WP.38	4 Picea mariana (P. Mill.) B.S.P.	black spruce	T2	20 16 cm
WP.38	3 Populus tremuloides Michx.	quaking aspen	T2	20 18 cm
WP.38	6 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	30
WP.38	7 Betula neoalaskana Sarg.	Alaska paper birch	T3	0.1
WP.38	8 Populus tremuloides Michx.	quaking aspen	T3	0.1
WP.39	18 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	35
WP.39	19 Cornus canadensis L.	bunchberry dogwood	7H	15
WP.39	20 Dryopteris carthusiana (Vill.) H.P. Fuchs	spinulose woodfern	7H	1
WP.39	21 Epilobium angustifolium L.	fireweed	7.H	1
WP.39	38 Equisetum sylvaticum L.	woodland horsetail	7 H	0.1
WP.39	36 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 _H	10
WP.39	37 Hieracium umbellatum L.	narrowleaf hawkweed	7.H	0.1
WP.39	22 Linnaea borealis L.	twinflower	7:H	3
WP.39	24 Maianthemum canadense Desf.	Canada beadruby	7.H	1
WP.39	25 Mertensia paniculata (Ait.) G. Don	tali bluebells	7H	3
WP.39	26 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus		
WP.39		to the same and the same of th	7H	1
	27 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	5
WP.39	28 Rubus pubescens Raf.	dwarf red blackberry	7 H	2
WP.39	30 Trientalis borealis Raf.	American starflower	7 H	0.1
WP.39	31 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	5
WP.39	32 Polytrichum commune Hedw.	polytrichum moss	8 N	10
WP.39	35 Prunus pensylvanica L. f.	pin cherry	4 S1	0.1
WP.39	34 Sambucus pubens Michx.	= Sambucus racemosa var. racemosa	4 S1	0.1
WP.39	12 Ledum groenlandicum Oeder	bog Labradortea	5 S2	0.1
WP.39	13 Rosa acicularis Lindl.	prickly rose	5 S2	0.1
WP.39	15 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1
WP.39	16 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	15
WP.39	14 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	0.1
WP.39	9 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	15 12 cm
WP.39	10 Picea glauca (Moench) Voss	white spruce	2 T2	10 15 cm
WP.39	4 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	5 14 cm
WP.39	33 Populus tremuloides Michx.	quaking aspen	2 T2	20 13 cm
WP.39	11 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	30
WP.39	2 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	0.1
WP.39	6 Populus tremuloides Michx.	quaking aspen	3 T3	0.1
WP.4	10 Carex limosa L.	mud sedge	7 H	0.1
WP.4	7 Carex pauciflora Lightf.	star sedge	7H	30
WP.4		tussock cottongrass	H	5.
WP.4	8 Eriophorum vaginatum L.		7 H	
WP.4	9 Smilacina trifolia (L.) Desf.	= Maianthemum trifolium		10
	13 Cladina mitis (Sandst.) Hustich	reindeer lichen	8 N	0.1
WP.4	11 Sphagnum fuscum (Schimp.) Klinggr.	sphagnum	8 N	50
WP.4	12 Sphagnum L.	sphagnum	8 N	10
WP.4	5 Andromeda polifolia L.	bog rosemary	S2	15
WP.4	6 Betula pumila L.	swamp birch	S2	3
WP.4	4 Chamaedaphne calyculata (L.) Moench	leatherleaf	S2	15
WP.4	3 Ledum groenlandicum Oeder	bog Labradortea	5 S2	10
WP.4	2 Picea mariana (P. Mill.) B.S.P.	black spruce	Т3	5
WP.4	1 Pinus contorta Dougl. ex Loud.	lodgepole pine	3 T3	20
WP.40	27 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
WP.40	28 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
WP.40	29 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
WP.40	30 Parmelia sulcata Taylor	shield lichen	10 E	0.1
WP.40	31 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
WP.40	12 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1
WP.40	8 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	5
-	9 Cornus canadensis L.	bunchberry dogwood	7 H	10
WP 40		DUCTOLIDELLY UDUWUUU		
WP.40			7 H	3
WP.40 WP.40	10 Dryopteris assimilis S. Walker 11 Epilobium angustifolium L.	= Dryopteris expansa fireweed	7 H	0.1

Plot Code	Pld	Scientific Name	Common Name	Stratum S Stratum	Real C	DBH
GRWP.40	14	Hieracium umbellatum L.	narrowleaf hawkweed	7 H	0.1	
GRWP.40	15	Linnaea borealis L.	twinflower	7 H	3	
GRWP.40	17	Lycopodium annotinum L.	stiff clubmoss	7 H	3	
GRWP.40	16	Maianthemum canadense Desf.	Canada beadruby	7 H	3	
GRWP.40	18	Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	1	
GRWP.40	-	Rubus pedatus Sm.	strawberryleaf raspberry	7 H	15	
GRWP.40	20	Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1	
GRWP.40		Trientalis borealis Raf.	American starflower	7 H	2	
GRWP.40		Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	40	
GRWP.40		Polytrichum commune Hedw.	polytrichum moss	8 N	5	
GRWP.40		Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	30	
GRWP.40		Sambucus pubens Michx.	= Sambucus racemosa var. racemosa	4 S1	0.1	
GRWP.40	+	Sorbus scopulina Greene	Greene mountainash	4 S1	0.1	
GRWP.40		Ledum groenlandicum Oeder	bog Labradortea	5 S2	10	
				5 S2	0.1	
GRWP.40		Ribes glandulosum Grauer	skunk currant	5 S2	0.1	
GRWP.40	+	Ribes hirtellum Michx.	hairystem gooseberry		i	
GRWP.40		Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1	
GRWP.40		Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	10	
GRWP.40		Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	0.1	
GRWP.40		Vaccinium vitis-idaea L.	lingonberry	6 S3	0.1	
GRWP.40		Abies lasiocarpa (Hook.) Nutt.	subalpine fir	T2	+	17 cm
GRWP.40	1 1	Betula neoalaskana Sarg.	Alaska paper birch	2 T2	+	15 cm
GRWP.40	33	Picea mariana (P. Mill.) B.S.P.	black spruce	T2	5	14 cm
GRWP.40	32	Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2	25	28 cm
GRWP.40	36	Populus tremuloides Michx.	quaking aspen	2 T2	10	22 cm
GRWP.40	38	Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	35	
GRWP.40	39	Betula neoalaskana Sarg.	Alaska paper birch	3 T3	2	
GRWP.41	34	Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
GRWP.41	35	Evernia mesomorpha Nyl.	ring lichen	10 E	0.1	
GRWP.41	36	Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
GRWP.41		Parmelia sulcata Taylor	shield lichen	10 E	0.1	
GRWP.41		Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
GRWP.41		Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	5	
GRWP.41	-1	Cornus canadensis L.	bunchberry dogwood	7 H	10	
GRWP.41		Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	1	
GRWP.41		Epilobium angustifolium L.	fireweed	7 H	0.1	
GRWP.41		Equisetum sylvaticum L.	woodland horsetail	7 H	0.1	
GRWP.41		Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	0.1	
GRWP.41	-	Linnaea borealis L.	twinflower	7 H	2	
GRWP.41	1	A 18 CHARLEST AND A STATE OF THE STATE OF TH	stiff clubmoss	7 H	0.1	
1	1	Lycopodium annotinum L.				
GRWP.41		Lycopodium complanatum L.	groundcedar	7 H	0.1	
GRWP.41	-	Rubus pedatus Sm.	strawberryleaf raspberry	7 H	15	
GRWP.41	. 1	Trientalis borealis Raf.	American starflower	7 H	0.1	
GRWP.41	1 .	Cladina mitis (Sandst.) Hustich	reindeer lichen	8 N	0.1	
GRWP.41		Flavocetraria nivalis (L.) Karnefelt & Thell		8 N	0.1	
GRWP.41	1	Hylocomium splendens (Hedw.) Schimp. in B		8 N	20	
GRWP.41		Peltigera aphthosa (L.) Willd.	felt lichen	8 N	1	
GRWP.41		Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	20	
GRWP.41		Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	20	
GRWP.41	8	Prunus pensylvanica L. f.	pin cherry	4 S1	0.1	
GRWP.41	40	Salix bebbiana Sarg.	Bebb willow	4 S1	0.1	
GRWP.41	1 5	Sorbus scopulina Greene	Greene mountainash	4 S1	0.1	
GRWP.41	10	Ledum groenlandicum Oeder	bog Labradortea	5 S2	10	
GRWP.41	1	Ribes lacustre (Pers.) Poir.	prickly currant	5 S2	0.1	
GRWP.41	13	Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	10	
GRWP.41		Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	20	
GRWP.41		Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	0.1	
GRWP.41		Vaccinium vitis-idaea L.	lingonberry	6 S3	5	
GRWP.41		1 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2		14 cm
				2 12	10	1-7 CIII

t Code	Pld Scientific Name	Common Name	Stratum S Stratum R	eal C	DBH
/P.41	39 Picea glauca (Moench) Voss	white spruce	2.T2	30	14 cm
/P.41	2 Picea mariana (P. Mill.) B.S.P.	black spruce	2T2	2	5 cm
/P.41	5 Populus tremuloides Michx.	quaking aspen	2,T2	3	7 cm
/P.41	6 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	35	
/P.41	4 Pinus contorta Dougl. ex Loud.	lodgepole pine	3 T3	0.1	
/P.42	34 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
/P.42	45 Cetraria pinastri (Scop.) Gray	= Vulpicida pinastri	10 E	0.1	
/P.42	35 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1	
/P.42	36 Hypogymnia physodes (L.) Nyl.	tube lichen	10/E	0.1	
/P.42	37 Parmelia sulcata Taylor	shield lichen	10 E	0.1	
/P.42	38 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
VP.42	41 Athyrium filix-femina (L.) Roth	common ladyfern	7H	0.1	
VP.42	17 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7:H	0.1	
VP.42	18 Cornus canadensis L.	bunchberry dogwood	7 H	15	
/P.42	19 Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	1	
VP.42	20 Epilobium angustifolium L.	fireweed	7 H	0.1	
VP.42	23 Linnaea borealis L.	twinflower	7 H	1	
VP.42	24 Lycopodium annotinum L.	stiff clubmoss	7 H	1	
VP.42	26 Rubus pedatus Sm.	strawberryleaf raspberry	7H	5	
VP.42	42 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7H	0.1	
VP.42	27 Trientalis borealis Raf.	American starflower	7H	0.1	
VP.42	29 Cladina mitis (Sandst.) Hustich	reindeer lichen			
VP.42	43 Cladina rangiferina (L.) Nyl.		N8	10	
VP.42		greygreen reindeer lichen	8 N	5	
	44 Dicranum undulatum Brid.	undulate dicranum moss	8 N	0.1	
VP.42	30 Hylocomium splendens (Hedw.) Schimp. in B.		8 N	25	
VP.42	31 Peltigera aphthosa (L.) Willd.	felt lichen	8 N	1	
VP.42	32 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	20	
VP.42	33 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	20	
VP.42	9 Salix arbusculoides Anderss.	littletree willow	4 S1	0.1	
VP.42	10 Sorbus scopulina Greene	Greene mountainash	4 S1	5	
VP.42	11 Ledum groenlandicum Oeder	bog Labradortea	5 S2	5	
VP.42	12 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1	
VP.42	13 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	5	
VP.42	14 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	20	
NP.42	16 Vaccinium vitis-idaea L.	lingonberry	6 S3	5	
VP.42	1 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	5	14 cm
VP.42	2 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	15	13 cm
NP.42	3 Picea glauca (Moench) Voss	white spruce	2 T2	20	10 cm
NP.42	4 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	5	10 cm
NP.42	5 Populus tremuloides Michx.	quaking aspen	2 T2	5	20 cm
NP.42	6 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	0.1	
NP.42	39 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	5	
NP.42	40 Picea mariana (P. Mill.) B.S.P.	black spruce	3 T3	30	
NP.42	7 Pinus contorta Dougl. ex Loud.	lodgepole pine	3 T3	0.1	
NP.43	31 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
NP.43	33 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1	
NP.43	34 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
NP.43	36 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
NP.43	14 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	1	
NP.43	15 Cornus canadensis L.	bunchberry dogwood	7 H	20	
NP.43		fireweed	7 H	0.1	
VP.43	16 Epilobium angustifolium L.			0.1	
	13 Hieracium umbellatum L.	narrowleaf hawkweed	7 H		
NP.43	17 Lathyrus ochroleucus Hook.	cream peavine	7 H	0.1	
NP.43	18 Linnaea borealis L.	twinflower	7 H	3	
NP.43	19 Lycopodium annotinum L.	stiff clubmoss	7 H	2	
NP.43	21 Maianthemum canadense Desf.	Canada beadruby	7 H	2	
NP.43	22 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7.H	1	
NP.43	23 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	15	
WP.43	25 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1	
NP.43	26 Trientalis borealis Raf.	American starflower	7H	0.1	

Plot Code	Pld Scientific Name	Common Name	Stratum S Stratun	Real C DBH
GRWP.43	28 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	40
GRWP.43	30 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	20
GRWP.43	7 Alnus crispa (Ait.) Pursh	= Alnus viridis ssp. crispa	4 S1	0.1
GRWP.43	8 Sorbus scopulina Greene	Greene mountainash	4 S1	1
GRWP.43	9 Ledum groenlandicum Oeder	bog Labradortea	5 S2	10
GRWP.43	10 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1
GRWP.43	11 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	5
GRWP.43	12 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	20
GRWP.43	20 Vaccinium vitis-idaea L.	lingonberry	6 S3	1
GRWP.43	37 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	10 16 cm
GRWP.43	2 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	5 13 cm
GRWP.43	4 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	10 16 cm
GRWP.43	38 Pinus contorta Dougl. ex Loud.	lodgepole pine	T2	40 20 cm
GRWP.43	5 Populus tremuloides Michx.	quaking aspen	2 T2	10 14 cm
GRWP.43	6 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	50
GRWP.44	35 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
GRWP.44	40 Cetraria pinastri (Scop.) Gray	= Vulpicida pinastri	10 E	0.1
GRWP.44	36 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
GRWP.44	37 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
GRWP.44	38 Parmelia sulcata Taylor	shield lichen	10 E	0.1
GRWP.44	39 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
GRWP.44	17 Aralia nudicaulis L.	wild sarsaparilla	7 H	5
		bluejoint	7 H	
GRWP.44	18 Calamagrostis canadensis (Michx.) Beauv.			1 1
GRWP.44	19 Cornus canadensis L.	bunchberry dogwood	7 H	15
GRWP.44	21 Epilobium angustifolium L.	fireweed	7 H	0.1
GRWP.44	20 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	1
GRWP.44	22 Linnaea borealis L.	twinflower	7 H	3
GRWP.44	23 Lycopodium annotinum L.	stiff clubmoss	7 H	2
GRWP.44	41 Lycopodium complanatum L.	groundcedar	7 H	0.1
GRWP.44	42 Maianthemum canadense Desf.	Canada beadruby	7H	1
GRWP.44	43 Orthilia secunda (L.) House	sidebells wintergreen	7 H	1
GRWP.44	24 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10
GRWP.44	44 Rubus pubescens Raf.	dwarf red blackberry	7 H	1
GRWP.44	25 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	0.1
GRWP.44	26 Trientalis borealis Raf.	American starflower	7 H	0.1
GRWP.44	31 Hylocomium splendens (Hedw.) Schimp. in B.	splendid feather moss	8 N	25
GRWP.44	33 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	10
GRWP.44	45 Polytrichum commune Hedw.	polytrichum moss	8 N	5
GRWP.44	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	20
GRWP.44	10 Salix arbusculoides Anderss.	littletree willow	4 S1	0.1
GRWP.44	11 Sorbus scopulina Greene	Greene mountainash	4 S1	2
GRWP.44	13 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1
GRWP.44	12 Ribes lacustre (Pers.) Poir.	prickly currant	5 S2	0.1
GRWP.44	14 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1
GRWP.44	15 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	0.1
GRWP.44	1 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	10 16 cm
GRWP.44	2 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	10 10 cm
GRWP.44	3 Picea glauca (Moench) Voss	white spruce	2 T2	5 10 cm
GRWP.44	4 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	5 10 cm
GRWP.44	5 Populus tremuloides Michx.	quaking aspen	2 T2	5 20 cm
GRWP.44	6 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	80
GRWP.45	34 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
GRWP.45	39 Cetraria Ach.	cetraria lichen	10 E	0.1
GRWP.45	35 Evernia mesomorpha Nyl.	ring lichen	10 E	
GRWP.45	36 Hypogymnia physodes (L.) Nyl.	tube lichen		0.1
GRWP.45			10 E	0.1
	37 Parmelia sulcata Taylor	shield lichen	10 E	0.1
GRWP.45	38 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
GRWP.45	17 Aralia nudicaulis L.	wild sarsaparilla	7 H	15
GRWP.45	20 Aster ciliolatus Lindl.	Lindley's aster	7 H	0.1
GRWP.45	18 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	5

lot Code	Pld Scientific Name	Common Name	Stratum S Stratum	Real C	DBH
WP.45	19 Cornus canadensis L.	bunchberry dogwood	7H	15	
WP.45	21 Epilobium angustifolium L.	fireweed	7.H	0.1	
WP.45	22 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	3	
WP.45	24 Linnaea borealis L.	twinflower	7H	1	
WP.45	25 Lycopodium annotinum L.	stiff clubmoss	7 H	1	
RWP.45	23 Lycopodium complanatum L.	groundcedar	7 H	0.1	
RWP.45	26 Maianthemum canadense Desf.	Canada beadruby	7 H	0.1	
RWP.45	27 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1	
RWP.45	28 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10	
RWP.45	29 Rubus pubescens Raf.	dwarf red blackberry	7 H	1	
RWP.45	32 Viola palustris L.	marsh violet	7·H	0.1	
RWP.45	31 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	10	
RWP.45	33 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	10	
RWP.45	8 Salix arbusculoides Anderss.	littletree willow	4'S1	0.1	
RWP.45	9 Sorbus scopulina Greene	Greene mountainash	4 S1	1	
RWP.45	10 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5.S2	2	
3WP.45	16 Oplopanax horridus Miq.	devilsclub	5 S2	0.1	
RWP.45	11 Ribes lacustre (Pers.) Poir.	prickly currant	5,S2	2	
RWP.45	12 Rosa acicularis Lindl.	prickly rose	5 S2	0.1	
WP.45	13 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1	
RWP.45	14 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	van e		
RWP.45	15 Viburnum edule (Michx.) Raf.		5 S2	5	
	. + +	mooseberry viburnum	5 S2	5	
₩P.45	1 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2		25 cm
RWP.45	3 Betula neoalaskana Sarg.	Alaska paper birch	2 T2		16 cm
WP.45	4 Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2		20 cm
WP.45	5 Populus tremuloides Michx.	quaking aspen	2 T2	5	18 cm
₹WP.45	6 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	40	
₹WP.46	35 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
WP.46	38 Cetraria Ach.	cetraria lichen	10 E	0.1	
₩P.46	36 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1	
₩P.46	37 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	_
₹WP.46	39 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
₹WP.46	17 Actaea rubra (Ait.) Willd.	red baneberry	7 H	3	
₹WP.46	40 Aralia nudicaulis L.	wild sarsaparilla	7 H	2	
IWP.46	18 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1	
₩P.46	19 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	5	
₹WP.46	20 Cornus canadensis L.	bunchberry dogwood	7 H	25	
RWP.46	21 Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	0.1	
3WP.46	22 Epilobium angustifolium L.	fireweed	7 H	0.1	
WP.46	24 Equisetum sylvaticum L.	woodland horsetail	7 H	1	
RWP.46	23 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	10.	
RWP.46	25 Linnaea borealis L.	twinflower	7 H	1	
₹WP.46	26 Lycopodium annotinum L.	stiff clubmoss	7 H	1,	-
RWP.46	27 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	0.1	
RWP.46	28 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	1:	
WP.46	45 Phegopteris connectilis (Michx.) Watt	long beechfern	7 H	5	
WP.46	29 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	5	
WP.46		dwarf red blackberry	7 H	3	
WP.46	31 Rubus pubescens Raf. 41 Smilacina racemosa (L.) Desf.	= Maianthemum racemosum ssp. race	7 H	0.1	
WP.46	42 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	1	
WP.46	30 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H		
RWP.46	43 Tiarella trifoliata L.	threeleaf foamflower	7 H	1	-
WP.46	44 Tiarella unifoliata Hook.	= Tiarella trifoliata var. unifoliata	7 H	1	
WP.46	32 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	15	
RWP.46	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	5	
WP.46	10 Sorbus scopulina Greene	Greene mountainash	4 S1	0.1	
WP.46	11 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1	
IWP.46	14 Oplopanax horridus Miq.	devilsclub	5 S2	1	
WP.46	12 Ribes lacustre (Pers.) Poir.	prickly currant	5 S2	0.1	
₹WP.46	13 Ribes triste Pallas	red currant	5 S2	0.1	

Plot Code	Pld Scientific Name	Common Name	Stratum S Stratum Rea	C DBH
GRWP.46	16 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	2
RWP.46	2 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	2 T2	35 22 cm
RWP.46	4 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	5 18 cm
RWP.46	3 Picea glauca (Moench) Voss	white spruce	2 T2	5 20 cm
RWP.46	5 Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2	0.1 22 cm
RWP.46	6 Populus tremuloides Michx.	quaking aspen	2 T2	5 18 cm
RWP.46	7 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	30
SRWP.47	35 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
SRWP.47	52 Cetraria Ach.	cetraria lichen	10 E	0.1
RWP.47	36 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
3RWP.47	37 Hypogymnia physodes (L.) Nyl.	tube lichen		0.1
RWP.47	39 Usnea Dill. ex Adans.	beard lichen		0.1
	17 Achillea millefolium L.	common yarrow	7 H	0.1
SRWP.47			7 H	0.1
SRWP.47	40 Actaea rubra (Ait.) Willd.	red baneberry		5
RWP.47	41 Aralia nudicaulis L.	wild sarsaparilla	7 H	
SRWP.47	42 Aster ciliolatus Lindl.	Lindley's aster	7H	0.1
3RWP.47	18 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	5
GRWP.47	19 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	30
GRWP.47	20 Cornus canadensis L.	bunchberry dogwood	7 H	20
GRWP.47	22 Epilobium angustifolium L.	fireweed	7 H	2
GRWP.47	29 Equisetum sylvaticum L.	woodland horsetail	7 H	1
GRWP.47	43 Galium boreale L.	northern bedstraw	7 H	0.1
GRWP.47	23 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	5
GRWP.47	24 Hieracium umbellatum L.	narrowleaf hawkweed	7 H	0.1
GRWP.47	50 Lathyrus ochroleucus Hook.	cream peavine	7 H	2
GRWP.47	25 Linnaea borealis L.	twinflower	7 H	2
GRWP.47	26 Lycopodium complanatum L.	groundcedar	7 H	0.1
GRWP.47	27 Maianthemum canadense Desf.	Canada beadruby	7 H	1
GRWP.47	44 Mitella nuda L.	naked miterwort	7 H	0.1
GRWP.47	28 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	2
		waxflower shinleaf	7 H	2
GRWP.47	49 Pyrola elliptica Nutt.			
GRWP.47	51 Rubus pubescens Raf.	dwarf red blackberry	7 H	10
GRWP.47	45 Schizachne purpurascens (Torr.) Swallen	false melic	7 H	
GRWP.47	30 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	1
GRWP.47	48 Thalictrum venulosum Trel.	veiny meadowrue	7 H	0.1
GRWP.47	47 Tiarella trifoliata L.	threeleaf foamflower	7 H	0.1
GRWP.47	46 Tiarella unifoliata Hook.	= Tiarella trifoliata var. unifoliata	7 H	2
GRWP.47	31 Trientalis borealis Raf.	American starflower	7 H	0.1
GRWP.47	32 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	15
GRWP.47	34 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	5
GRWP.47	9 Alnus crispa (Ait.) Pursh	= Alnus viridis ssp. crispa	4 S1	0.1
GRWP.47	10 Sorbus scopulina Greene	Greene mountainash	4 S1	1
GRWP.47	11 Ledum groenlandicum Oeder	bog Labradortea	5 S2	0.1
GRWP.47	12 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	1
GRWP.47	13 Ribes lacustre (Pers.) Poir.	prickly currant	5 S2	0.1
GRWP.47	14 Rosa acicularis Lindl.	prickly rose	5 S2	0.1
GRWP.47	15 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	10
GRWP.47	16 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	5
GRWP.47	4 Betula neoalaskana Sarg.	Alaska paper birch	2 T2	5 13 cm
GRWP.47	3 Picea glauca (Moench) Voss	white spruce	2 T2	30 20 cm
GRWP.47	6 Populus tremuloides Michx.	quaking aspen	2 T2	15 16 cm
GRWP.47	7 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	15
GRWP.48	42 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
GRWP.48	46 Cetraria Ach.	cetraria lichen	10 E	0.1
GRWP.48	43 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
GRWP.48	44 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
GRWP.48	45 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
GRWP.48	13 Achillea millefolium L.	common yarrow	7 H	0.1
GRWP.48	14 Actaea rubra (Ait.) Willd.	red baneberry	7 H	2
GRWP.48	15 Aralia nudicaulis L.	wild sarsaparilla	7 H	20

olot Code	Pld	Scientific Name	Common Name	Stratum SStratu	mReal C	DBH
RWP.48	16 Aster ciliol	atus Lindl.	Lindley's aster	7 H	3	
RWP.48	52 Aster cons	picuus Lindl.	showy aster	7.H	0.1	
RWP.48	17 Athyrium fi	ilix-femina (L.) Roth	common ladyfern	7 H	0.1	
RWP.48	18 Calamagro	ostis canadensis (Michx.) Beauv.	bluejoint	7 H	45	
RWP.48	19 Cornus ca	nadensis L.	bunchberry dogwood	7.H	10	
RWP.48	49 Delphiniun	n glaucum S. Wats.	Sierra larkspur	7·H	0.1	
RWP.48	21 Epilobium	angustifolium L.	fireweed	7.H	1	
RWP.48	22 Equisetum	sylvaticum L.	woodland horsetail	7 H	0.1	
RWP.48	23 Galium bo	reale L.	northern bedstraw	7 H	0.1	
₹WP.48	29 Galium trif	lorum Michx.	fragrant bedstraw	7.H	0.1	
RWP.48	51 Gentiana r	ichardsonii Porsild	= Gentianopsis detonsa ssp. detonsa	7 H	0.1	
RWP.48	24 Gymnocar	pium dryopteris (L.) Newman	western oakfern	7 H	2	
RWP.48		lanatum Michx.	= Heracleum maximum	7 H	. 2	
RWP.48		umbellatum L.	narrowleaf hawkweed	7 H	1	
RWP.48	+	chroleucus Hook.	cream peavine	7 H		
RWP.48	27 Linnaea bo		twinflower		2	
RWP.48		m annotinum L.	stiff clubmoss	7 H	0.1	
RWP.48	h .)			7 H	0.1	
		paniculata (Ait.) G. Don	tall bluebells	7 H	1	
RWP.48	30 Mitella nuo		naked miterwort	7 H	0.1	
RWP.48		palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	2	
RWP.48	32 Pyrola ellip		waxflower shinleaf	7.H	0.1	
RWP.48	33 Rubus pub		dwarf red blackberry	7 _. H	10	
WP.48	50 Schizachn	e purpurascens (Torr.) Swallen	false melic	7 H	1	
RWP.48	38 Solidago o	anadensis L.	Canada goldenrod	7 H	0.1	
RWP.48	35 Streptopus	s amplexifolius (L.) DC.	claspleaf twistedstalk	7 H	2	
RWP.48	36 Thalictrum	venulosum Trel.	veiny meadowrue	7 H	0.1	
WP.48	39 Trientalis t	porealis Raf.	American starflower	7 H	0.1	
RWP.48	48 Vicia amer	ricana Muhl. ex Willd.	American vetch	7.H	0.1	
RWP.48	40 Pleuroziun	n schreberi (Brid.) Mitt.	Schreber's big red stem moss	8.N	0.1	
3WP.48	9 Ribes lacu	ıstre (Pers.) Poir.	prickly currant	5 S2	0.1	
RWP.48	10 Rosa acici	ularis Lindl.	prickly rose	5 S2	2	
₹WP.48	+	myrtilloides Michx.	velvetleaf huckleberry	5 S2	0.1	
₹WP.48		edule (Michx.) Raf.	mooseberry viburnum	5 S2	3	
₹WP.48	+	ica (Moench) Voss	white spruce	2 T2	20.25	5 cm
WP.48	· · · · · · · · · · · · · · · · · · ·	emuloides Michx.	quaking aspen	2 T2	20 15	
₹WP.48		palaskana Sarg.	Alaska paper birch	3 T3	0.1	Cili
RWP.48		emuloides Michx.		3 T3	0.1	
RWP.49			quaking aspen	7 H	1	
RWP.49	13 Achillea m		common yarrow	7 H		
WP.49	++-	bra (Ait.) Willd.	red baneberry		0.1	
	15 Aralia nud		wild sarsaparilla	7 H	2	
RWP.49	16 Aster cilio		Lindley's aster	7 H	1	
RWP.49	+	filix-femina (L.) Roth	common ladyfern	7 H	5	
RWP.49	+	ostis canadensis (Michx.) Beauv.	bluejoint	7 H	60	
RWP.49		angustifolium L.	fireweed	7 H	0.1	
RWP.49	21 Equisetum	n sylvaticum L.	woodland horsetail	7 H	2	
₹WP.49	24 Fragaria v	rirginiana Duchesne	Virginia strawberry	7 H	1	
3WP.49	22 Galium bo	oreale L.	northern bedstraw	7 H	0.1	
₹WP.49	19 Geranium	richardsonii Fisch. & Trautv.	Richardson's geranium	7 H	2	
RWP.49	23 Gymnocai	rpium dryopteris (L.) Newman	western oakfern	7 H	0.1	
RWP.49	47 Heracleun	n lanatum Michx.	= Heracleum maximum	7 H	2	
₹WP.49	49 Hieracium	umbellatum L.	narrowleaf hawkweed	7 H	0.1	
₹WP.49	25 Lathyrus	ochroleucus Hook.	cream peavine	7 H	2	
3WP.49	28 Maianther	num canadense Desf.	Canada beadruby	7 H	0.1	
3WP.49		palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	1	
RWP.49		bescens Raf.	dwarf red blackberry	7 H	5	
WP.49		canadensis L.	Canada goldenrod	7 H	0.1	
WP.49		n venulosum Trel.	veiny meadowrue	7 H	5	
WP.49		ricana Muhl. ex Willd.	American vetch	7 H	0.1	
WP.49				7 H	0.1	
	37 Viola palu	ouio L.	marsh violet	/ 11	0.1	

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Plot Code	PIC Scientific Name	Common Name	Stratum SStratum	Real C DB
RWP.49	46 Rubus idaeus L.	American red raspberry	5 S2	15
GRWP.49	11 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	0.1
GRWP.49	12 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	0.1
GRWP.49	50 Populus tremuloides Michx.	quaking aspen	3 T3	0.1
RWP.5	1 Carex aquatilis Wahlenb.	water sedge	7 H	15
GRWP.5	7 Carex pauciflora Lightf.	star sedge	7 H	5
GRWP.5	11 Eriophorum vaginatum L.	tussock cottongrass	7 H	1
GRWP.5	10 Rubus chamaemorus L.	cloudberry	7 H	1
		= Maianthemum trifolium	7 H	5
GRWP.5	6 Smilacina trifolia (L.) Desf.			
GRWP.5	8 Vaccinium oxycoccos L.	small cranberry	7 H	1
GRWP.5	16 Aulacomnium palustre (Hedw.) Schwaegr.		8 N	0
GRWP.5	14 Sphagnum fuscum (Schimp.) Klinggr.	sphagnum	8 N	50
GRWP.5	15 Sphagnum L.	sphagnum	8 N	10
GRWP.5	2 Ledum groenlandicum Oeder	bog Labradortea	5 S2	2
GRWP.5	5 Andromeda polifolia L.	bog rosemary	4 S3	10
GRWP.5	9 Chamaedaphne calyculata (L.) Moench	leatherleaf	6 S3	2
GRWP.5	4 Kalmia polifolia Wangenh.	bog laurel	6 S3	2
GRWP.5	3 Picea mariana (P. Mill.) B.S.P.	black spruce	3 T3	0.1
GRWP.50	5 Achillea millefolium L.	common yarrow	7 H	0.1
		red baneberry	7 H	2
GRWP.50	6 Actaea rubra (Ait.) Willd.			
GRWP.50	7 Aralia nudicaulis L.	wild sarsaparilla	7 H	30
GRWP.50	8 Aster ciliolatus Lindl.	Lindley's aster	7 H	1
GRWP.50	10 Aster conspicuus Lindl.	showy aster	7 H	25
GRWP.50	9 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	5
GRWP.50	11 Cornus canadensis L.	bunchberry dogwood	7 H	5
GRWP.50	12 Equisetum sylvaticum L.	woodland horsetail	7 H	0.1
GRWP.50	14 Galium boreale L.	northern bedstraw	7 H	1
GRWP.50	13 Galium triflorum Michx.	fragrant bedstraw	7 H	0.1
GRWP.50	15 Geranium richardsonii Fisch. & Trautv.	Richardson's geranium	7 H	1
GRWP.50	16 Gymnocarpium dryopteris (L.) Newman	western oakfern	7 H	3
GRWP.50	17 Heracleum lanatum Michx.	= Heracleum maximum	7 H	2
	The same of the sa		7 H	
GRWP.50	18 Lathyrus ochroleucus Hook.	cream peavine		5
GRWP.50	32 Linnaea borealis L.	twinflower	7 H	1
GRWP.50	19 Maianthemum canadense Desf.	Canada beadruby	7 H	1
GRWP.50	26 Mertensia paniculata (Ait.) G. Don	tall bluebells	7 H	5
GRWP.50	33 Mitella nuda L.	naked miterwort	7 H	0.1
GRWP.50	20 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	1
GRWP.50	24 Pyrola elliptica Nutt.	waxflower shinleaf	7 H	1
GRWP.50	21 Rubus pubescens Raf.	dwarf red blackberry	7 H	5
GRWP.50	22 Thalictrum venulosum Trel.	veiny meadowrue	7 H	5
GRWP.50	23 Trientalis borealis Raf.	American starflower	7 H	0.1
GRWP.50	25 Viola palustris L.	marsh violet	7 H	0.1
GRWP.50	2 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle		
			5 S2	5
GRWP.50	31 Ribes hirtellum Michx.	hairystem gooseberry	5 S2	0.1
GRWP.50	1 Rosa acicularis Lindl.	prickly rose	5 S2	1
GRWP.50	3 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	0.1
GRWP.50	4 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2	5
GRWP.50	28 Picea glauca (Moench) Voss	white spruce	2 T2	20 28 cr
GRWP.50	29 Populus tremuloides Michx.	quaking aspen	T2	40 16 cr
GRWP.50	30 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	2
GRWP.51	42 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1
GRWP.51	43 Cetraria Ach.	cetraria lichen	10 E	0.1
GRWP.51	44 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1
GRWP.51				
	45 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1
GRWP.51	46 Physcia (Schreber) Michaux	rosette lichen	10 E	0.1
GRWP.51	47 Usnea Dill. ex Adans.	beard lichen	10 E	0.1
GRWP.51	12 Aster ciliolatus Lindl.	Lindley's aster	7 H	0.1
GRWP.51	16 Calamagrostis canadensis (Michx.) Beau	ıv. bluejoint	7 H	10
GRWP.51	15 Cornus canadensis L.	bunchberry dogwood	7 H	20
GRWP.51	17 Epilobium angustifolium L.	fireweed	7 H	0.1

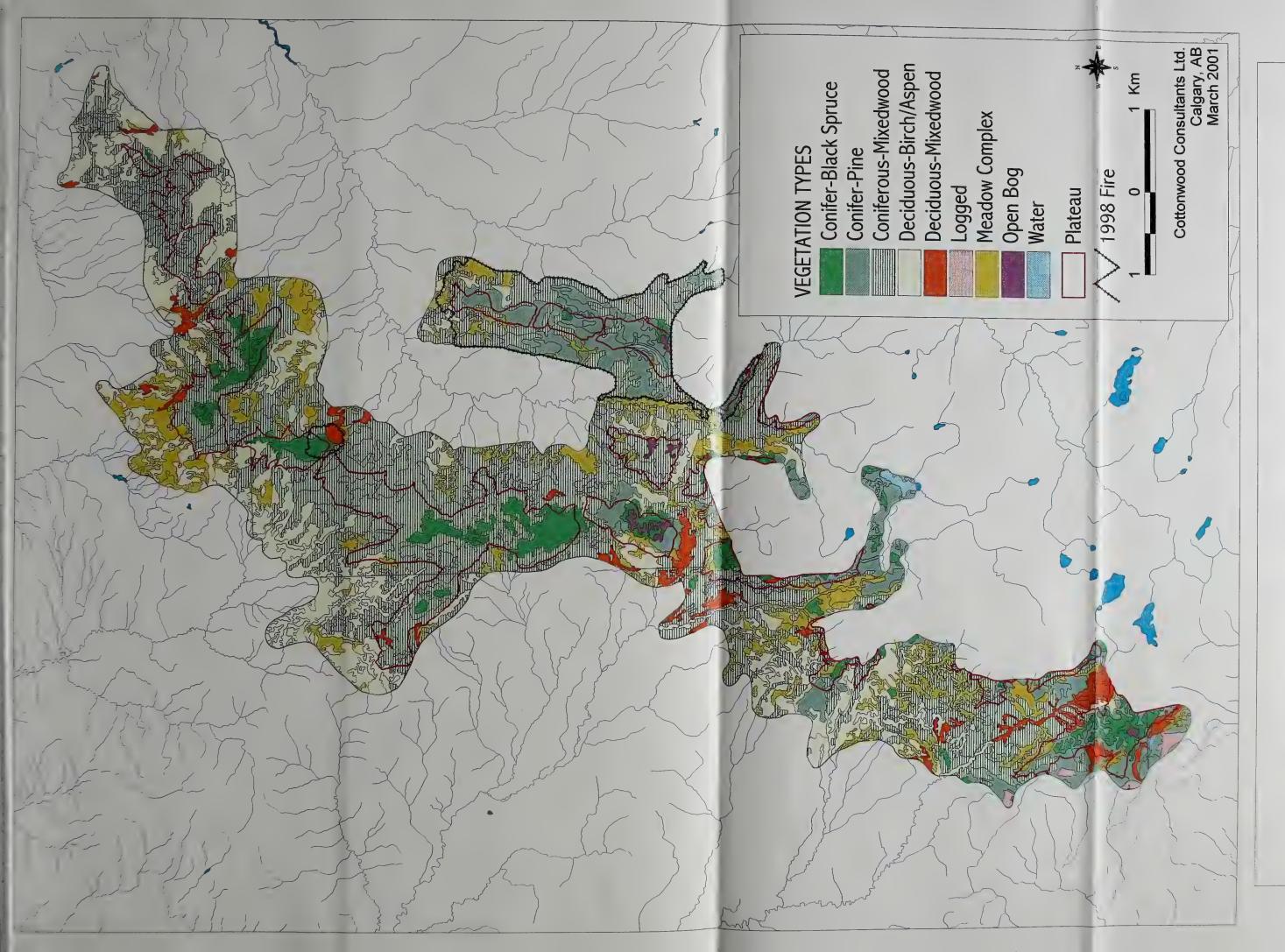
ot Code	Pld Scientific Name	Common Name	Stratum S Stratum F	Real Co	DBH
VP.51	18 Hieracium umbellatum L.	narrowleaf hawkweed	7 H	1	
VP.51	23 Linnaea borealis L.	twinflower	7 H	3	
VP.51	25 Lycopodium annotinum L.	stiff clubmoss	7 H	1	
VP.51	26 Lycopodium complanatum L.	groundcedar	7 H	0.1	
VP.51	24 Maianthemum canadense Desf.	Canada beadruby	7 H	1	
VP.51	29 Rubus pubescens Raf.	dwarf red blackberry	7 H	0.1	
VP.51	31 Trientalis borealis Raf.	American starflower	7 H	0.1	
VP.51	32 Viola palustris L.	marsh violet	7H	0.1	
VP.51	41 Cladina mitis (Sandst.) Hustich	reindeer lichen	8 N	5	
VP.51	37 Dicranum fuscescens Turn.	dicranum moss	8 N	0.1	
VP.51	38 Hylocomium splendens (Hedw.) Schimp. in B.	splendid feather moss	8 N	20	
VP.51	39 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	5	
VP.51	40 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	5	
NP.51	34 Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem		4 \$1	0.1	
VP.51	35 Sorbus scopulina Greene	Greene mountainash	4 S1	0.1	
WP.51	4 Lonicera involucrata Banks ex Spreng.	twinberry honeysuckle	5 S2	0.1	
NP.51	6 Rosa acicularis Lindl.	prickly rose	5 S2	1	
NP.51	36 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	0.1	
NP.51	7 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	30	
NP.51	8 Viburnum edule (Michx.) Raf.	mooseberry viburnum	5 S2 5 S2		
NP.51	27 Vaccinium vitis-idaea L.		6 \$3	0.1	
	· · · · · · · · · · · · · · · · · · ·	lingonberry			
NP.51	3 Betula neoalaskana Sarg.	Alaska paper birch	2 T2		11 cm
NP.51	2 Picea glauca (Moench) Voss	white spruce	2 T2		18 cm
NP.51	1 Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2		15 cm
NP.51	33 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	20	
NP.51	49 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	0.1	
NP.52	31 Cetraria Ach.	cetraria lichen	10 E	0.1	
NP.52	40 Cetraria pinastri (Scop.) Gray	= Vulpicida pinastri	10 E	0.1.	
NP.52	32 Evernia mesomorpha Nyl.	ring lichen	10 E	0.1	
NP.52	33 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
NP.52	34 Physcia (Schreber) Michaux	rosette lichen	10 E	0.1	
NP.52	35 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
NP.52	13 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	5	
NP.52	12 Cornus canadensis L.	bunchberry dogwood	7 H	25	
WP.52	16 Linnaea borealis L.	twinflower	7 H	5	
NP.52	18 Lycopodium annotinum L.	stiff clubmoss	7 H	5	
NP.52	19 Lycopodium complanatum L.	groundcedar	7 H	2	
NP.52	17 Maianthemum canadense Desf.	Canada beadruby	7 H	1	
NP.52	21 Orthilia secunda (L.) House	sidebells wintergreen	7 H	0.1	
NP.52	23 Schizachne purpurascens (Torr.) Swallen	false melic	7 H	1	
NP.52	22 Trientalis borealis Raf.	American starflower	7 H	0.1	
NP.52	29 Cladina mitis (Sandst.) Hustich	reindeer lichen	8 N	0.1	
NP.52	25 Dicranum fuscescens Turn.	dicranum moss	8 N	0.1	
NP.52	26 Hylocomium splendens (Hedw.) Schimp. in B.		8 N	20	-
NP.52	27 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	3	
NP.52	28 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	2	
VP.52	5 Prunus pensylvanica L. f.	pin cherry	4 S1	0.1	
NP.52	6 Sorbus scopulina Greene	Greene mountainash	4 S1	2	
WP.52	8 Rosa acicularis Lindl.	prickly rose	5 S2	0.1	
VP.52		· · · · · · · · · · · · · · · · · · ·	5 S2	5	
VP.52	24 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	5 S2	35	
WP.52	9 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	6 S3	2	
-	20 Vaccinium vitis-idaea L.	lingonberry			
NP.52	1 Betula neoalaskana Sarg.	Alaska paper birch	2 T2		10 cm
VP.52	2 Picea glauca (Moench) Voss	white spruce	2 T2		16 cm
VP.52	3 Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2		15 cm
VP.52	36 Populus tremuloides Michx.	quaking aspen	2 T2		10 cm
VP.52	4 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	3 T3	25	
VP.52	37 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	2	
NP.52	38 Picea glauca (Moench) Voss	white spruce	3 T3	0.1	
NP.52	39 Populus tremuloides Michx.	quaking aspen	3 T3	0.1	

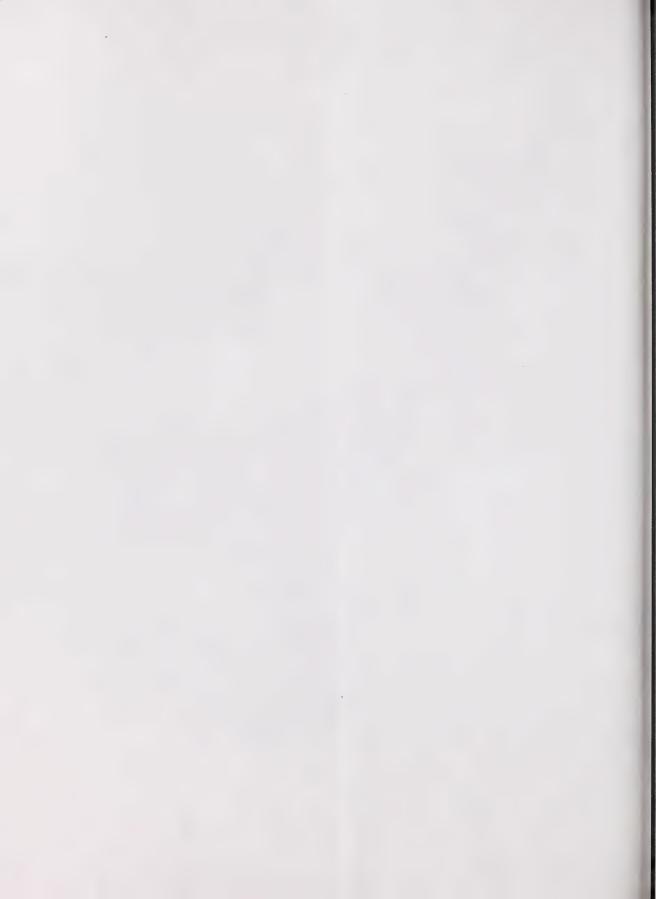
Plots-Species

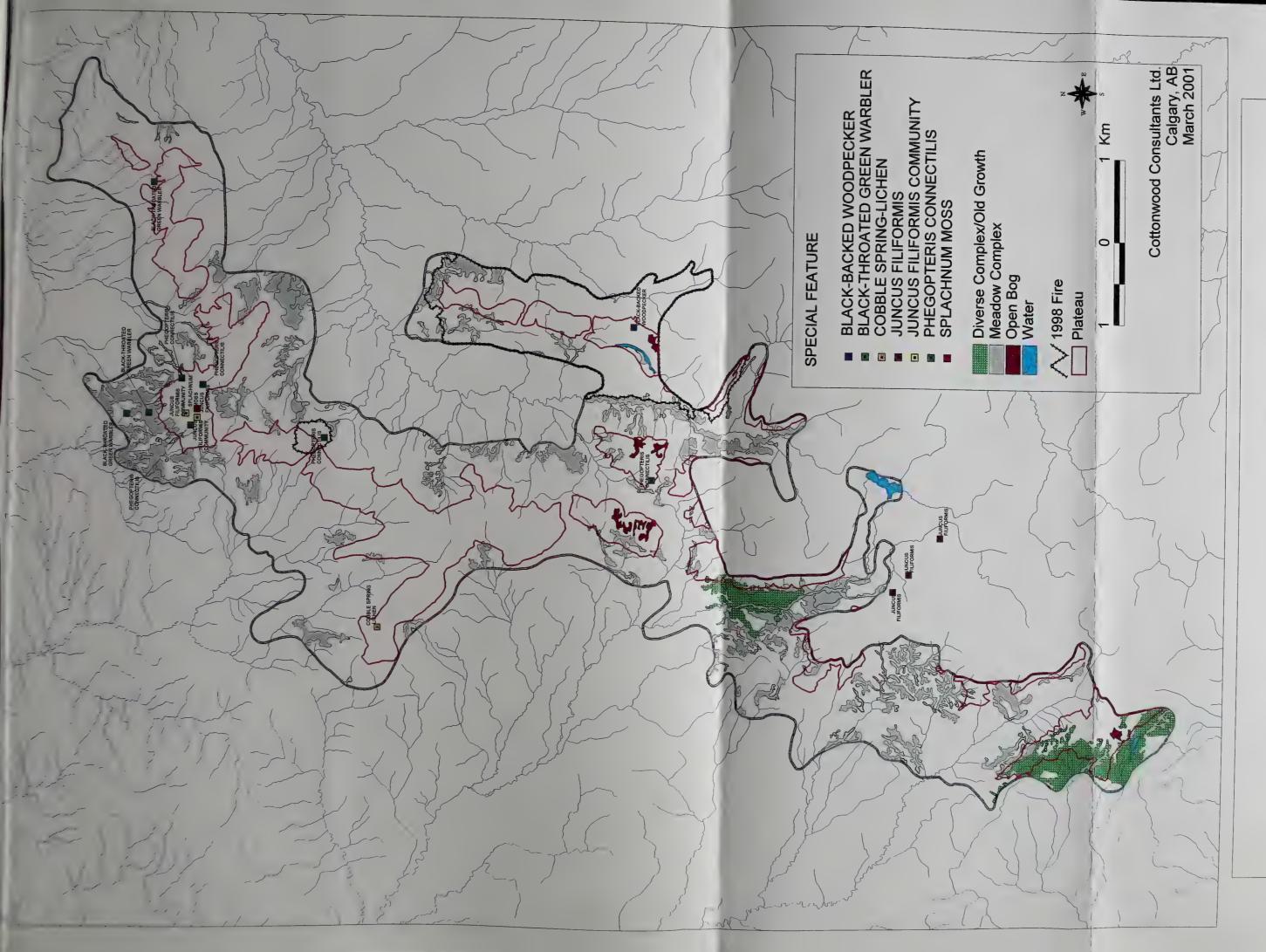
Plot Code	Pld Scientific Name	Common Name	Stratum S Stratum F	Real Co	DBH
RWP.6	5 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
RWP.6	4 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
RWP.6	3 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
RWP.6	1 Carex aquatilis Wahlenb.	water sedge	7 H	2	
RWP.6	7 Carex pauciflora Lightf.	star sedge	7 H	25	
RWP.6	11 Eriophorum vaginatum L.	tussock cottongrass	7 H	0.1	
RWP.6	10 Rubus chamaemorus L.	cloudberry	7 H	5	
RWP.6	6 Smilacina trifolia (L.) Desf.	= Maianthemum trifolium	7 H	5	
RWP.6	8 Vaccinium oxycoccos L.	small cranberry	7 H	1	
			8 N	0	
RWP.6	16 Aulacomnium palustre (Hedw.) Schwaegr.	aulacomnium moss			
RWP.6	14 Sphagnum fuscum (Schimp.) Klinggr.	sphagnum	8 N	50	
RWP.6	15 Sphagnum L.	sphagnum	8 N	10	
RWP.6	2 Betula pumila L.	swamp birch	5 S2	0.1	
RWP.6	2 Ledum groenlandicum Oeder	bog Labradortea	5 S2	10	
RWP.6	5 Andromeda polifolia L.	bog rosemary	4 S3	5	
RWP.6	9 Chamaedaphne calyculata (L.) Moench	leatherleaf	6 S3	25	
RWP.6	4 Kalmia polifolia Wangenh.	bog laurel	6 S3	2	
RWP.6	1 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2	15	5 cm
RWP.6	3 Picea mariana (P. Mill.) B.S.P.	black spruce	3 T3	0.1	
RWP.6	6 Pinus contorta Dougl. ex Loud.	lodgepole pine	3 T3	0.1	
RWP.7	5 Bryoria Brodo & D. Hawksw.	horsehair lichen	10E	0.1	
	6 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
RWP.7					
RWP.7	4 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
RWP.7	13 Carex deweyana Schwein.	Dewey sedge	7 H	0.1	
GRWP.7	7 Carex pauciflora Lightf.	star sedge	7 H	2	
RWP.7	11 Eriophorum vaginatum L.	tussock cottongrass	7 H	1	
RWP.7	2 Gaultheria hispidula (L.) Muhl. ex Bigelow	creeping snowberry	7 H	5	
RWP.7	3 Moneses uniflora (L.) Gray	single delight	7 H	0.1	
GRWP.7	10 Rubus chamaemorus L.	cloudberry	7 H	40	
SRWP.7	6 Smilacina trifolia (L.) Desf.	= Maianthemum trifolium	7 H	5	
GRWP.7	17 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	15	
GRWP.7	18 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	5	
GRWP.7	15 Sphagnum L.	sphagnum	8 N	30	
GRWP.7	2 Ledum groenlandicum Oeder	bog Labradortea	5 S2	25	ļ
GRWP.7			4 S3	10	1
	5 Andromeda polifolia L.	bog rosemary			
GRWP.7	9 Chamaedaphne calyculata (L.) Moench	leatherleaf	6 S3	2	
GRWP.7	12 Vaccinium vitis-idaea L.	lingonberry	6 S3	2	
GRWP.7	1 Picea mariana (P. Mill.) B.S.P.	black spruce	2 T2		12 cm
GRWP.7	3 Picea mariana (P. Mill.) B.S.P.	black spruce	3 T3	0.1	<u></u>
GRWP.8	19 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E	0.1	
GRWP.8	18 Usnea Dill. ex Adans.	beard lichen	10 E	0.1	
GRWP.8	12 Aralia nudicaulis L.	wild sarsaparilla	7 H	2	
GRWP.8	17 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	1	
GRWP.8	10 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	Н	60	
GRWP.8	9 Epilobium angustifolium L.	fireweed	7 H	3	+
GRWP.8	15 Equisetum sylvaticum L.	woodland horsetail	7 H	2	
GRWP.8	14 Galium triflorum Michx.	fragrant bedstraw	7 H	0.1	
GRWP.8					
	16 Gymnocarpium robertianum (Hoffmann) New		7 H	1	
GRWP.8	11 Heracleum lanatum Michx.	= Heracleum maximum	7 H	2	
GRWP.8	13 Petasites palmatus (Ait.) Gray	= Petasites frigidus var. palmatus	7 H	0.1	
GRWP.8	5 Alnus tenuifolia Nutt.	= Alnus incana ssp. tenuifolia	4 \$1	20	
GRWP.8	8 Ribes hirtellum Michx.	hairystem gooseberry	5 S2	0.1	
GRWP.8	7 Rosa woodsii Lindl.	Woods' rose	S2	0.1	
GRWP.8	6 Rubus idaeus L.	American red raspberry	5 S2	10	
GRWP.8	3 Betula neoalaskana Sarg.	Alaska paper birch	T2	5	13 cm
GRWP.8	2 Pinus contorta Dougl. ex Loud.	lodgepole pine	T2		30 cm
GRWP.8	1 Populus balsamifera L.	balsam poplar	2 T2		40 cm
GRWP.9	25 Bryoria Brodo & D. Hawksw.	horsehair lichen	10 E	0.1	
GRWP.9	24 Hypogymnia physodes (L.) Nyl.	tube lichen	10 E		
	ITPOMITTING PHYSOUGS (L.) INVI.	LUDO HOHOH	IUE	0.1	

riois-opecies					
lot Code	Pld Scientific Name	Common Name	Stratum S Stratum F	Real Co DBH	
WP.9	20 Athyrium filix-femina (L.) Roth	common ladyfern	7 H	0.1	
WP.9	9 Calamagrostis canadensis (Michx.) Beauv.	bluejoint	7 H	5	
WP.9	13 Carex deweyana Schwein.	Dewey sedge	7 H	0.1	
WP.9	19 Cinna latifolia (Trev. ex Goepp.) Griseb.	drooping woodreed	7 H	0.1	
WP.9	10 Cornus canadensis L.	bunchberry dogwood	Н	10	
WP.9	17 Dryopteris assimilis S. Walker	= Dryopteris expansa	7 H	0.1	
WP.9	18 Epilobium angustifolium L.	fireweed	7 H	0.1	
WP.9	16 Lycopodium annotinum L.	stiff clubmoss	7 H	3	
WP.9	15 Maianthemum canadense Desf.	Canada beadruby	7 H	2	
WP.9	12 Rubus pedatus Sm.	strawberryleaf raspberry	7 H	10	
WP.9	14 Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	7 [*] H	1	
WP.9	21 Pleurozium schreberi (Brid.) Mitt.	Schreber's big red stem moss	8 N	15	
WP.9	22 Ptilium crista-castrensis (Hedw.) De Not.	knights plume moss	8 N	5	
WP.9	5 Sorbus scopulina Greene	Greene mountainash	4 S1	5	
WP.9	8 Ledum groenlandicum Oeder	bog Labradortea	S2	20	
WP.9	7 Vaccinium membranaceum Dougl. ex Torr.	blue huckleberry	S2	5	
WP.9	6 Vaccinium myrtilloides Michx.	velvetleaf huckleberry	5 S2	55	
WP.9	11 Vaccinium vitis-idaea L.	lingonberry	6 S3	5	
WP.9	2 Picea mariana (P. Mill.) B.S.P.	black spruce	T2	1	
WP.9	1 Pinus contorta Dougl. ex Loud.	lodgepole pine	2 T2	50 25 cm	
WP.9	4 Abies lasiocarpa (Hook.) Nutt.	subalpine fir	Т3	1	
WP.9	3 Betula neoalaskana Sarg.	Alaska paper birch	3 T3	0.1	

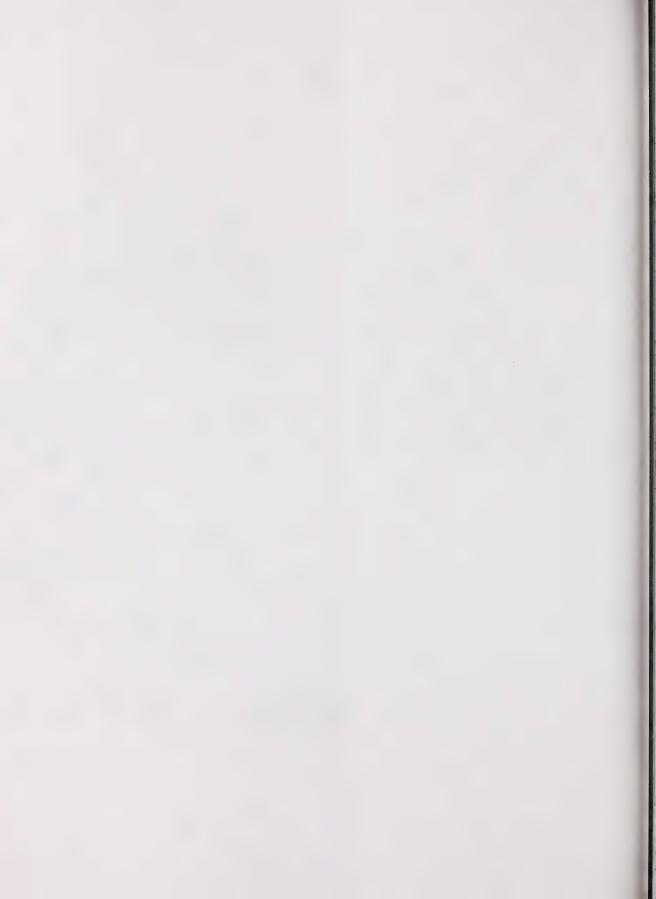


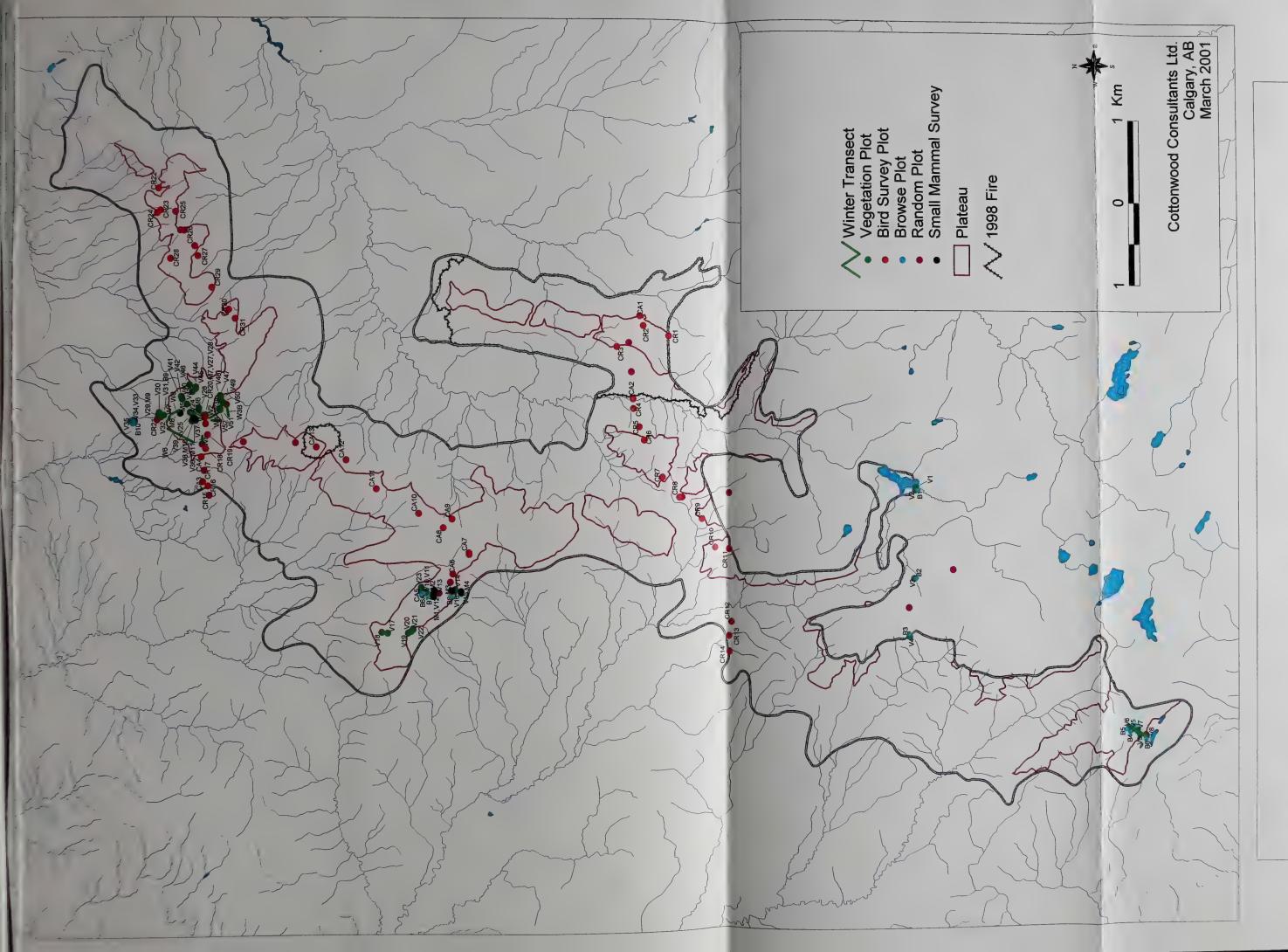






RIDGE





RIDGE PLOT GRIZZI MAP 3.



